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S. Abdollahi et al.

Fermi Large Area Telescope Fourth Source Catalog.

The astrophysical journal / Supplement series, 247(1):33, and PUBDB-2020-01400, arXiv:1902.10045.

doi: 10.3847/1538-4365/ab6bcb.

A. U. Abeysekara et al.

Demonstration of stellar intensity interferometry with the four VERITAS telescopes.

Nature astronomy, 4(12):1164, and PUBDB-2021-00147, arXiv:2007.10295.

doi: 10.1038/s41550-020-1143-y.

A. U. Abeysekara et al.

Evidence for proton acceleration up to TeV energies based on VERITAS and Fermi-LAT observations of the Cas A SNR.

The astrophysical journal, 894(1):1, and PUBDB-2020-02987, arXiv:2003.13615.

doi: 10.3847/1538-4357/ab8310.

A. U. Abeysekara et al.

The Great Markarian 421 Flare of February 2010: Multi-wavelength variability and correlation studies.

The astrophysical journal, 890(2):97 (1, and PUBDB-2020-04500, arXiv:2002.03567.

doi: 10.3847/1538-4357/ab6612.

J. Ablinger et al.

Subleading logarithmic QED initial state corrections to $e^+e^- \rightarrow \gamma/Z0$ to $O(\alpha_s^2)$.

Nuclear physics / B Particle physics, 955:115045, and PUBDB-2020-02240, arXiv:2004.04287. DESY-19-231. DO-TH 19/32. TTP20-012. SAGEX 19-36.

doi: 10.1016/j.nuclphysb.2020.115045.

J. Ablinger et al.

The three-loop polarized pure singlet operator matrix element with two different masses.

Nuclear physics / B Particle physics, B952:114916, and PUBDB-2020-02282, DESY-19-163. arXiv:1911.11630. DO-TH 19/19. TTP 19-038. SAGEX-19-23-E.

doi: 10.1016/j.nuclphysb.2020.114916.

J. Ablinger et al.

The three-loop single mass polarized pure singlet operator matrix element.

Nuclear physics / B Particle physics, B953:114945, and PUBDB-2020-02434, DESY-19-216. arXiv:1912.02536. DO-

TH 19/02. TTP 19-043. MSUHEP-19-026. SAGEX 19-30.

doi: 10.1016/j.nuclphysb.2020.114945.

J. Ablinger et al.

The Two-mass Contribution to the Three-Loop Polarized Operator Matrix Element $A_{gg,Q}^{(3)}$.

Nuclear physics / B Particle physics, 955:115059, and PUBDB-2020-02245, DESY-20-051. DO-TH 20/03. TTP 20-013. SAGEX-20-07-E. 2004.08916 [hep-ph].

doi: 10.1016/j.nuclphysb.2020.115059.

J. Ablinger et al.

Three loop QCD corrections to heavy quark form factors.

1. 19th International Workshop on Advanced Computing and Analysis Techniques in Physics Research, Saas-Fee (Switzerland), 11 Mar 2019 - 15 Mar 2019.

Journal of physics / Conference Series, vol. 15251:012018 (1, and PUBDB-2020-05323, arXiv:1905.03728. DESY-19-078. DO-TH 19/06.

IOP Publ., Bristol.

doi: 10.1088/1742-6596/1525/1/012018.

F. Abudinén et al.

Search for Axionlike Particles Produced in e^+e^- Collisions at Belle II.

Physical review letters, 125(16):161806, and PUBDB-2020-03957, arXiv:2007.13071. Belle II Preprint 2020-001. KEK Preprint 2020-10. arXiv:2007.13071.

doi: 10.1103/PhysRevLett.125.161806.

V. A. Acciari et al.

Monitoring of the radio galaxy M 87 during a low-emission state from 2012 to 2015 with MAGIC.

Monthly notices of the Royal Astronomical Society, 492(4):5354, and PUBDB-2020-04794, arXiv:2001.01643.

doi: 10.1093/mnras/staa014.

V. A. Acciari et al.

New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes.

The astrophysical journal / Supplement series, 247(1):16, and PUBDB-2020-01399, arXiv:1911.06680.

doi: 10.3847/1538-4365/ab5b98.

A. Achúcarro et al.

Origin of ultra-light fields during inflation and their suppressed non-Gaussianity.

Journal of cosmology and astroparticle physics, 2010(10):018 (1, and PUBDB-2020-03809, arXiv:1908.06956. DESY-19-121.

doi: 10.1088/1475-7516/2020/10/018.

A. Achúcarro et al.

Shift-symmetric orbital inflation: Single field or multifield?

Physical review / D 102(2):021302, and PUBDB-2020-03009, arXiv:1901.03657. DESY-19-015.

doi: 10.1103/PhysRevD.102.021302.

P. Ahlburg et al.

EUDAQ—a data acquisition software framework for common beam telescopes.

Journal of Instrumentation, 15(01):P01038 (1, and PUBDB-2020-04950, arXiv:1909.13725.

doi: 10.1088/1748-0221/15/01/P01038.

A. Airapetian et al.

Azimuthal single- and double-spin asymmetries in semi-inclusive deep-inelastic lepton scattering by transversely polarized protons.

Journal of high energy physics, 2020(12):010, and PUBDB-2020-05309, arXiv:2007.07755. DESY-20-119.

doi: 10.1007/JHEP12(2020)010.

M. Ajello et al.

Fermi and Swift Observations of GRB 190114C: Tracing the Evolution of High-Energy Emission from Prompt to Afterglow.

The astrophysical journal, 890(1):9, and PUBDB-2020-04014, arXiv:1909.10605.

doi: 10.3847/1538-4357/ab5b05.

M. Ajello et al.

The γ -ray Emission of Star-Forming Galaxies.

The astrophysical journal, 894(2):1, and PUBDB-2020-02970, arXiv:2003.05493.

doi: 10.3847/1538-4357/ab86a6.

A. H. Ajjath et al.

Resummed Drell-Yan cross-section at N^3LL .

Journal of high energy physics, 10(10):153 (1, and PUBDB-2020-04577, arXiv:2001.11377. IMSc/2019/12/16. DESY-19-191. SI-HEP-2019-23.

doi: 10.1007/JHEP10(2020)153.

M. Akhond et al.

Five-brane webs, Higgs branches and unitary/orthosymplectic magnetic quivers.

Journal of high energy physics, 2020(12):164, and PUBDB-2021-00111, arXiv:2008.01027. CTP-SCU/2020026. DESY-20-128.

doi: 10.1007/JHEP12(2020)164.

L. Alasfar et al.

B anomalies under the lens of electroweak precision.

Journal of high energy physics, 2020(12):016, and PUBDB-2020-05282, DESY-20-091. HU-EP-20/12-RTG. SISSA 16/2020/FISI. UCI-TR 2020-10. arXiv:2007.04400.

doi: 10.1007/JHEP12(2020)016.

S. Alekhin, J. Bluemlein and S. Moch.

Heavy-flavor PDF evolution and variable-flavor number scheme uncertainties in deep-inelastic scattering.

Physical review / D, 102(5):054014, and PUBDB-2020-04060, arXiv:2006.07032. DESY-20-061. DO-TH 20/05. SAGEX-20-09.

doi: 10.1103/PhysRevD.102.054014.

C. Alexandrou et al.

Comparison of topological charge definitions in Lattice QCD.

The European physical journal / C Particles and fields, 80(5):424, and PUBDB-2020-02186, DESY-17-115. arXiv:1708.00696.

doi: 10.1140/epjc/s10052-020-7984-9.

C. Alexandrou et al.

Parton distribution functions from lattice QCD using Bayes-Gauss-Fourier transforms.

Physical review / D, 102(9):094508, and PUBDB-2020-04539, arXiv:2007.13800.

doi: 10.1103/PhysRevD.102.094508.

C. Alexandrou et al.

Ruling Out the Massless Up-Quark Solution to the Strong C P Problem by Computing the Topological Mass Contribution with Lattice QCD.

Physical review letters, 125(23):232001, and PUBDB-2020-05260, arXiv:2002.07802.

doi: 10.1103/PhysRevLett.125.232001.

C. Alexandrou et al.

The nucleon axial, tensor and scalar charges and σ -terms in lattice QCD.

Physical review / D, 102(5):054517 (1, and PUBDB-2020-04179.

doi: 10.1103/PhysRevD.102.054517.

C. Alexandrou et al.

Unpolarized and helicity generalized parton distributions of the proton within lattice QCD.

Physical review letters, 125(26):262001, and PUBDB-2021-00148, arXiv:2008.10573.

doi: 10.1103/PhysRevLett.125.262001.

C. Alexandrou et al.

Complete flavor decomposition of the spin and momentum fraction of the proton using lattice QCD simulations at physical pion mass.

Physical review / D 101(9):094513, and PUBDB-2020-02369, arXiv:2003.08486.

doi: 10.1103/PhysRevD.101.094513.

C. Alexandrou et al.

Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass.

Physical review / D 101(3):034519, and PUBDB-2020-01424, arXiv:1908.10706.

doi: 10.1103/PhysRevD.101.034519.

C. Alexandrou et al.

Nucleon strange electromagnetic form factors.

Physical review / D 101(3):031501, and PUBDB-2020-02140, arXiv:1909.10744.

doi: 10.1103/PhysRevD.101.031501.

A. Ali et al.

Transverse energy-energy correlations of jets in the electron-proton deep inelastic scattering at HERA.

The European physical journal / C, 80(12):1096, and PUBDB-2021-01450, arXiv:2008.00271. ACFI-T20-09. DESY-20-129.

doi: 10.1140/epjc/s10052-020-08614-3.

S. Ali et al.

Continuum extrapolation of Ward identities in $\mathcal{N} = 1$ supersymmetric SU(3) Yang–Mills theory.

The European physical journal / C, 80(6):548 (1, and PUBDB-2021-00590, arXiv:2003.04110. MS-TP-20-17.

doi: 10.1140/epjc/s10052-020-8113-5.

A. Alonso-Serrano, M. P. Dabrowski and T. Naumann.

Post-Editorial of “The Multiverse” Special Volume.

Universe, 6(1):17, and PUBDB-2021-00343.

doi: 10.3390/universe6010017.

ALPHA Collaboration.

Non-perturbative renormalization of $O(a)$ improved tensor currents.

Proceedings of Science / International School for Advanced Studies, (LATTICE2019):212, and PUBDB-2021-01492, arXiv:1910.06759. CERN-TH-2019-146. MS-TP-19-21. IFT-UAM/CSIC-19-123. DESY-20-014.

doi: 10.22323/1.363.0212.

S. Anand et al.

Optical follow-up of the neutron star-black hole mergers S200105ae and S200115j.

Nature astronomy, 387:38, and PUBDB-2020-04537, arXiv:2009.07210.

doi: 10.1038/s41550-020-1183-3.

J. R. Andersen et al.

A Positive Resampler for Monte Carlo Events with Negative Weights.

The European physical journal / C, 80(11):1007, and PUBDB-2021-00010, arXiv:2005.09375. DCPT/20/30. DESY-20-090. IPPP/20/15. LU-TP-20-21. MCNET-20-14. SAGEX-20-12.

doi: 10.1140/epjc/s10052-020-08548-w.

N. Andrei et al.

Boundary and Defect CFT: Open Problems and Applications.

Journal of physics / A, 53(45):453002, and PUBDB-2021-00500, arXiv:1810.05697.

doi: 10.1088/1751-8121/abb0fe.

A. Andrianavalomahefa et al.

Search for dark photons as candidates for Dark Matter with FUNK.

36th International Cosmic Ray Conference, Madison (United States), 24 Jul 2019 - 1 Aug 2019.

Proceedings of Science / International School for Advanced Studies, vol. (ICRC2019):517, and PUBDB-2021-00020.

SISSA, Trieste.

doi: 10.3204/PUBDB-2021-00020.

A. Andrianavalomahefa et al.

Limits from the FUNK experiment on the mixing strength of hidden-photon dark matter in the visible and near-ultraviolet wavelength range.

Physical review / D, 102(4):042001, and PUBDB-2021-00005, arXiv:2003.13144.

doi: 10.1103/PhysRevD.102.042001.

C. Angelantonj et al.

String Defects, Supersymmetry and the Swampland.

Journal of high energy physics, 11(11):125, and PUBDB-2020-04699, arXiv:2007.12722. CPHT-RR046.072020. DESY-20-123.

doi: 10.1007/JHEP11(2020)125.

ANTARES Collaboration and IceCube Collaboration.

ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky.

The astrophysical journal, 892(2):92, and PUBDB-2020-03253, arXiv:2001.04412.

doi: 10.3847/1538-4357/ab7afb.

ANTARES Collaboration and IceCube Collaboration and LIGO Scientific Collaboration and VIRGO Collaboration.

Search for Multi-messenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during its first Observing Run, ANTARES and IceCube.

The astrophysical journal, 870(2):1, and PUBDB-2020-04065.

doi: 10.3847/1538-4357/aaf21d.

S. Aoki et al.

FLAG Review 2019.

The European physical journal / C, 80(2):113, and PUBDB-2020-04064, arXiv:1902.08191.

doi: 10.1140/epjc/s10052-019-7354-7.

A. Archer et al.

Probing the Properties of the Pulsar Wind in the Gamma-Ray Binary HESS J0632+057 with NuSTAR and VERITAS Observations.

The astrophysical journal / 1, 888(2):115, and PUBDB-2020-00349, arXiv:1911.09434.

doi: 10.3847/1538-4357/ab59de.

A. Archer et al.

VERITAS Discovery of VHE Emission from the Radio Galaxy 3C 264: A Multi-Wavelength Study.

The astrophysical journal, 896(1):41, and PUBDB-2020-02515, arXiv:2005.03110.

doi: 10.3847/1538-4357/ab910e.

M. Ardu et al.

Axion quality from the (anti)symmetric of SU(N).

Journal of high energy physics, 11(11):90, and PUBDB-2020-04601, arXiv:2007.12663. DESY 20-124.

doi: 10.1007/JHEP11(2020)090.

ARIANNA Collaboration.

A search for cosmogenic neutrinos with the ARIANNA test bed using 4.5 years of data.

Journal of cosmology and astroparticle physics, 2020(03):053, and PUBDB-2020-04167, arXiv:1909.00840.

doi: 10.1088/1475-7516/2020/03/053.

ARIANNA Collaboration.

Probing the angular and polarization reconstruction of the ARIANNA detector at the South Pole.

Journal of Instrumentation, 15(09):P09039, and PUBDB-2020-04029, arXiv:2006.03027.

doi: 10.1088/1748-0221/15/09/P09039.

T. Ashton et al.

A NECTAr-based upgrade for the Cherenkov cameras of the H.E.S.S. 12-meter telescopes.

Astroparticle physics, 118:102425, and PUBDB-2020-00672, arXiv:2001.04510.

doi: 10.1016/j.astropartphys.2019.102425.

I. Astapov et al.

An approach for identification of ultrahigh energy extensive air showers with scintillation detectors at TAIGA experiment.

09. International Conference on Instrumentation for Colliding Beam Physics, Novosibirsk (Russian Federation), 24 Feb 2020 - 28 Feb 2020.

Journal of Instrumentation, vol. 1509:C09037, and PUBDB-2021-00179.

Inst. of Physics, London.

doi: 10.1088/1748-0221/15/09/C09037.

I. Astapov et al.

Optimization of electromagnetic and hadronic extensive air shower identification using the muon detectors of the TAIGA experiment.

Nuclear instruments & methods in physics research / A, 952:161730, and PUBDB-2021-00373.

doi: 10.1016/j.nima.2018.12.045.

ATLAS Collaboration.

A search for the $Z\gamma$ decay mode of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physics letters / B, 809:135754 (1, and PUBDB-2020-03810, arXiv:2005.05382. CERN-EP-2020-052.

doi: 10.1016/j.physletb.2020.135754.

ATLAS Collaboration.

Alignment of the ATLAS Inner Detector in Run-2.

The European physical journal / C, 80(12):1194 (1, and PUBDB-2021-01426, arXiv:2007.07624. CERN-EP-2020-108.

doi: 10.1140/epjc/s10052-020-08700-6.

ATLAS Collaboration.

ATLAS data quality operations and performance for 2015-2018 data-taking.

Journal of Instrumentation, 15(04):P04003, and PUBDB-2020-02537, arXiv:1911.04632. CERN-EP-2019-207.

doi: 10.1088/1748-0221/15/04/P04003.

ATLAS Collaboration.

Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physics letters / B, 800:135103, and PUBDB-2019-04982, arXiv:1906.02025. CERN-EP-2019-099.

doi: 10.1016/j.physletb.2019.135103.

ATLAS Collaboration.

Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment.

Physical review / D, 101(1):012002, and PUBDB-2020-02598, arXiv:1909.02845. CERN-EP-2019-097.

doi: 10.1103/PhysRevD.101.012002.

ATLAS Collaboration.

CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}H$ and tH Processes Using $H \rightarrow \gamma\gamma$ with the ATLAS Detector.

Physical review letters, 125(6):061802: 1, and PUBDB-2020-03040, arXiv:2004.04545. CERN-EP-2020-046.

doi: 10.1103/PhysRevLett.125.061802.

ATLAS Collaboration.

Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector.

The European physical journal / C, 80(12):1104 (1, and PUBDB-2020-05248, arXiv:1910.04482. CERN-EP-2019-057.

doi: 10.1140/epjc/s10052-020-08477-8.

ATLAS Collaboration.

Dijet resonance search with weak supervision using $\sqrt{s} = 13$ TeV pp collisions in the ATLAS detector.

Physical review letters, 125(13):131801 (1, and PUBDB-2020-04590, arXiv:2005.02983. CERN-EP-2020-062.

doi: 10.1103/PhysRevLett.125.131801.

ATLAS Collaboration.

Erratum to: Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(10):48, and PUBDB-2021-00441, arXiv:1711.03296. CERN-EP-2017-213.

doi: 10.1007/JHEP10(2020)048.

ATLAS Collaboration.

Erratum to: Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer.

Journal of high energy physics, 2020(10):182, and PUBDB-2021-00447, arXiv:1911.00453. CERN-EP-2019-190.

doi: 10.1007/JHEP10(2020)182.

ATLAS Collaboration.

Erratum to: Measurements of top-quark pair differential and double-differential cross-sections in the $\ell^+\ell^-$ jets channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector [Eur. Phys. J. C 79 (2019) 1028].

The European physical journal / C, 80(11):1092, and PUBDB-2021-00418, arXiv:1908.07305. CERN-EP-2019-149. arXiv:1908.07305. CERN-EP-2019-149.

doi: 10.1140/epjc/s10052-020-08541-3.

ATLAS Collaboration.

Erratum to: Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(6):42 (1, and PUBDB-2021-01427, arXiv:1906.08589. CERN-EP-2019-044.

doi: 10.1007/JHEP06(2020)042.

ATLAS Collaboration.

Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physics letters / B, B803:135341, and PUBDB-2020-02549,

arXiv:1910.09503. CERN-EP-2019-206.
doi: 10.1016/j.physletb.2020.135341.

ATLAS Collaboration.

Evidence for $t\bar{t}t\bar{t}$ production in the multilepton final state in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C, 80(11):1085 (1, and PUBDB-2020-05096, arXiv:2007.14858. CERN-EP-2020-111.

doi: 10.1140/epjc/s10052-020-08509-3.

ATLAS Collaboration.

Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector.

Journal of high energy physics, 01(1):051, and PUBDB-2020-04623, arXiv:1904.04808. CERN-EP-2019-023.

doi: 10.1007/JHEP01(2020)051.

ATLAS Collaboration.

Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C, 80(10):957 (1, and PUBDB-2020-04620, arXiv:2004.03447. CERN-EP-2020-034.

doi: 10.1140/epjc/s10052-020-8227-9.

ATLAS Collaboration.

Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector.

Physics letters / B, B807:135595, and PUBDB-2020-02960, arXiv:2003.03565. CERN-EP-2019-274.

doi: 10.1016/j.physletb.2020.135595.

ATLAS Collaboration.

Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physical review letters, 124(8):082301, and PUBDB-2020-02599, arXiv:1909.01650. CERN-EP-2019-166.

doi: 10.1103/PhysRevLett.124.082301.

ATLAS Collaboration.

Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer.

Journal of high energy physics, 2020(2):42, and PUBDB-2020-02542, arXiv:1911.00453. CERN-EP-2019-190.

doi: 10.1007/JHEP02(2020)042.

ATLAS Collaboration.

Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(3):179, and PUBDB-2020-02525, arXiv:1912.09866. CERN-EP-2019-210.

doi: 10.1007/JHEP03(2020)179.

ATLAS Collaboration.

Measurement of J/ψ production in association with a $W^\pm$ boson with pp data at 8 TeV.

Journal of high energy physics, 2020(1):95, and PUBDB-2020-02566, arXiv:1909.13626. CERN-EP-2018-352.

doi: 10.1007/JHEP01(2020)095.

ATLAS Collaboration.

Measurement of long-range two-particle azimuthal correlations in Z -boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV.

The European physical journal / C, 80(1):64, and PUBDB-2020-04624, arXiv:1906.08290. CERN-EP-2019-103.

doi: 10.1140/epjc/s10052-020-7606-6.

ATLAS Collaboration.

Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV.

Physical review / D, 101(5):052007, and PUBDB-2020-02524, arXiv:1912.09837. CERN-EP-2019-269.

doi: 10.1103/PhysRevD.101.052007.

ATLAS Collaboration.

Measurement of the azimuthal anisotropy of charged-particle production in $Xe + Xe$ collisions at $\sqrt{s_{NN}} = 5.44$ TeV with the ATLAS detector.

Physical review / C covering nuclear physics, 101(2):024906, and PUBDB-2020-02536, arXiv:1911.04812. CERN-EP-2019-227.

doi: 10.1103/PhysRevC.101.024906.

ATLAS Collaboration.

Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector.

Physical review letters, 124(22):222002, and PUBDB-2020-02361, arXiv:2004.03540. CERN-EP-2020-030.

doi: 10.1103/PhysRevLett.124.222002.

ATLAS Collaboration.

Measurement of the transverse momentum distribution of Drell–Yan lepton pairs in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C Particles and fields, C80(7):616, and PUBDB-2020-02963, arXiv:1912.02844. CERN-EP-2019-223.

doi: 10.1140/epjc/s10052-020-8001-z.

ATLAS Collaboration.

Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C Particles and fields, 80(6):528, and PUBDB-2020-02552, arXiv:1910.08819. CERN-EP-2019-203.

doi: 10.1140/epjc/s10052-020-7907-9.

ATLAS Collaboration.

Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS experiment.

Physics letters / B, 810:1, and PUBDB-2020-03601, arXiv:2006.13076. CERN-EP-2020-096.

doi: 10.1016/j.physletb.2020.135797.

ATLAS Collaboration.

Measurement of the $Z(\rightarrow \ell^+ \ell^-) \gamma$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(3):54, and PUBDB-2020-02534, arXiv:1911.04813. CERN-EP-2019-228.

doi: 10.1007/JHEP03(2020)054.

ATLAS Collaboration.

Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $tW\gamma$ production in the $e\mu$ channel at 13 TeV with the ATLAS detector.

Journal of high energy physics, 2020(9):1, and PUBDB-2020-03604, arXiv:2007.06946. CERN-EP-2020-100.

doi: 10.1007/JHEP09(2020)049.

ATLAS Collaboration.

Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(10):942, and PUBDB-2020-04622, arXiv:2004.03969. CERN-EP-2020-035.

doi: 10.1140/epjc/s10052-020-8223-0.

ATLAS Collaboration.

Measurements of the production cross-section for a Z boson in association with b -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2007(7):44, and PUBDB-2020-02961, arXiv:2003.11960. CERN-EP-2020-022.

doi: 10.1007/JHEP07(2020)044.

ATLAS Collaboration.

Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector.

The European physical journal / C, 80(8):754 (1, and PUBDB-2020-05002, arXiv:1903.07570. CERN-EP-2019-034.

doi: 10.1140/epjc/s10052-020-8181-6.

ATLAS Collaboration.

Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS.

Physical review letters, 125(26):261801 (1, and PUBDB-2021-01428, arXiv:2009.14537. CERN-EP-2020-167.

doi: 10.1103/PhysRevLett.125.261801.

ATLAS Collaboration.

Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(7):124, and PUBDB-2020-02948, arXiv:2002.07546. CERN-EP-2019-273.

doi: 10.1007/JHEP07(2020)124.

ATLAS Collaboration.

Operation of the ATLAS trigger system in Run 2.

Journal of Instrumentation, 15(10):P10004 (1, and PUBDB-2020-04570, arXiv:2007.12539. CERN-EP-2020-109.

doi: 10.1088/1748-0221/15/10/P10004.

ATLAS Collaboration.

Performance of electron and photon triggers in ATLAS during LHC Run 2.

The European physical journal / C Particles and fields, 80(1):47, and PUBDB-2020-02637, arXiv:1909.00761. CERN-EP-2019-169.

doi: 10.1140/epjc/s10052-019-7500-2.

ATLAS Collaboration.

Performance of the ATLAS muon triggers in Run 2.

Journal of Instrumentation, 15(09):P09015 (1, and PUBDB-2020-04891, arXiv:2004.13447. CERN-EP-2020-031.

doi: 10.1088/1748-0221/15/09/p09015.

ATLAS Collaboration.

Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking.

Journal of high energy physics, 2020(8):80 (1, and PUBDB-2020-03326, arXiv:2005.09554. CERN-EP-2020-050.

doi: 10.1007/JHEP08(2020)080.

ATLAS Collaboration.

Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger.

Journal of Instrumentation, 15(11):P11016, and PUBDB-2020-04638, arXiv:2005.04179. CERN-EP-2020-042.

doi: 10.1088/1748-0221/15/11/P11016.

ATLAS Collaboration.

Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS.

Journal of high energy physics, 11(11):163, and PUBDB-2020-05035, arXiv:2007.14811. CERN Preprint ID: CERN-EP-2020-118.

doi: 10.1007/JHEP11(2020)163.

ATLAS Collaboration.

Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector.

The European physical journal / C Particles and fields, 80(8):737, and PUBDB-2020-03039, arXiv:2004.14060. CERN-EP-2020-044.

doi: 10.1140/epjc/s10052-020-8102-8.

ATLAS Collaboration.

Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector.

Physical review / D, 101(7):072001, and PUBDB-2020-02526, arXiv:1912.08479. CERN-EP-2019-263.

doi: 10.1103/PhysRevD.101.072001.

ATLAS Collaboration.

Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector.

Journal of high energy physics, 2020(6):151, and PUBDB-2020-02949, arXiv:2002.11325. CERN-EP-2019-276.

doi: 10.1007/JHEP06(2020)151.

ATLAS Collaboration.

Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 10(10):005, and PUBDB-2020-04625, arXiv:2004.10894. CERN-EP-2019-204.
doi: 10.1007/JHEP10(2020)005.

ATLAS Collaboration.

Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C, 80(8):691, and PUBDB-2020-04637, arXiv:1909.09226. CERN-EP-2019-188.
arXiv:1909.09226. CERN-EP-2019-188.
doi: 10.1140/epjc/s10052-020-8050-3.

ATLAS Collaboration.

Search for direct stau production in events with two hadronic τ -leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector.
Physical review / D, 101(3):032009, and PUBDB-2020-02533, arXiv:1911.06660. CERN-EP-2019-191.
doi: 10.1103/PhysRevD.101.032009.

ATLAS Collaboration.

Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physics letters / B, 801:135114 (1, and PUBDB-2021-00375, arXiv:1907.10037. CERN-EP-2019-139.
doi: 10.1016/j.physletb.2019.135114.

ATLAS Collaboration.

Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector.

The European physical journal / C Particles and fields, 80(2):123, and PUBDB-2020-02638, arXiv:1908.08215. CERN-EP-2019-106.
doi: 10.1140/epjc/s10052-019-7594-6.

ATLAS Collaboration.

Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment.

Physics letters / B, 800:135082, and PUBDB-2019-05089, arXiv:1908.08461. CERN-EP-2019-155.
doi: 10.1016/j.physletb.2019.135082.

ATLAS Collaboration.

Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C, 80(12):1165 (1, and PUBDB-2021-01425, arXiv:2004.14636. CERN-EP-2020-049.
doi: 10.1140/epjc/s10052-020-08554-y.

ATLAS Collaboration.

Search for heavy Higgs bosons decaying into two tau leptons with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV.

Physical review letters, 125(5):051801, and PUBDB-2020-02959, arXiv:2002.12223. CERN-EP-2020-014.
doi: 10.1103/PhysRevLett.125.051801.

ATLAS Collaboration.

Search for heavy neutral Higgs bosons produced in association with b -quarks and decaying into b -quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physical review / D, 102(3):032004, and PUBDB-2020-04603, arXiv:1907.02749. CERN-EP-2019-092.
doi: 10.1103/PhysRevD.102.032004.

ATLAS Collaboration.

Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector.

Physical review letters, 125(25):251802 (1, and PUBDB-2020-05247, arXiv:2008.05928. CERN-EP-2020-128. CERN preprint ID: CERN-EP-2020-128.
doi: 10.1103/PhysRevLett.125.251802.

ATLAS Collaboration.

Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector.

Physical review letters, 125(22):221802 (1, and PUBDB-2020-05255, arXiv:2004.01678. CERN-EP-2020-033.
doi: 10.1103/PhysRevLett.125.221802.

ATLAS Collaboration.

Search for Higgs boson decays into two new low-mass spin-0 particles in the $4b$ channel with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(11):112006, and PUBDB-2020-05101, arXiv:2005.12236. CERN-EP-2020-067.
doi: 10.1103/PhysRevD.102.112006.

A. Basalaev.

Search for Higgs boson in the final state with two leptons and a photon produced in pp collisions at a center-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS detector.

40th International Conference on High Energy Physics, Prague(online) (Czech Republic), 28 Jul 2020 - 6 Aug 2020. *Proceedings of Science / International School for Advanced Studies*, vol. (ICHEP2020):094, and PUBDB-2020-05032. SISSA, Trieste.

ATLAS Collaboration.

Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector.

The European physical journal / C Particles and fields, 80(5):450, and PUBDB-2020-02609, arXiv:1909.01246. CERN-EP-2019-140.
doi: 10.1140/epjc/s10052-020-7997-4.

ATLAS Collaboration.

Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physical review / D, 102(3):032006, and PUBDB-2020-04629, arXiv:2003.11956. CERN-EP-2019-219.
doi: 10.1103/PhysRevD.102.032006.

ATLAS Collaboration.

Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer.

Physical review / D, 101(5):052013, and PUBDB-2020-02530, arXiv:1911.12575. CERN-EP-2019-240.
doi: 10.1103/PhysRevD.101.052013.

ATLAS Collaboration.

Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector.

Physical review letters, 124(3):031802, and PUBDB-2020-04586, arXiv:1905.10130. CERN-EP-2019-084.
doi: 10.1103/PhysRevLett.124.031802.

ATLAS Collaboration.

Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector.

Journal of high energy physics, 11(11):5, and PUBDB-2020-04588, arXiv:2006.12946. CERN-EP-2020-066.
doi: 10.1007/JHEP11(2020)005.

ATLAS Collaboration.

Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC.

Journal of high energy physics, 2020(10):062, and PUBDB-2020-04026, arXiv:2008.06032. CERN-EP-2020-123.
doi: 10.1007/JHEP10(2020)062.

ATLAS Collaboration.

Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(3):145, and PUBDB-2020-02556, arXiv:1910.08447. CERN-EP-2019-162.
doi: 10.1007/JHEP03(2020)145.

ATLAS Collaboration.

Search for non-resonant Higgs boson pair production in the $b\bar{b}\ell\nu\ell\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 801:135145, and PUBDB-2020-02639, arXiv:1908.06765. CERN-EP-2019-143.
doi: 10.1016/j.physletb.2019.135145.

ATLAS Collaboration.

Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector.

Journal of high energy physics, 10(10):112 (1, and PUBDB-2020-04265, arXiv:2006.05872. CERN-EP-2020-084.
doi: 10.1007/JHEP10(2020)112.

ATLAS Collaboration.

Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physical review / D, 102(11):112008 (1, and PUBDB-2020-05098, arXiv:2007.05293. CERN-EP-2020-073.
doi: 10.1103/PhysRevD.102.112008.

ATLAS Collaboration.

Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector.

Journal of high energy physics, 2006(6):46, and PUBDB-2020-02572, arXiv:1909.08457. CERN-EP-2019-161.
doi: 10.1007/JHEP06(2020)046.

ATLAS Collaboration.

Search for the $HH \rightarrow b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 2020(7):108, and PUBDB-2020-02947, arXiv:2001.05178. CERN-EP-2019-267.
doi: 10.1007/JHEP07(2020)108.

ATLAS Collaboration.

Search for the Higgs boson decays $H \rightarrow ee$ and $H \rightarrow e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Physics letters / B, 801:135148, and PUBDB-2020-02568, arXiv:1909.10235. CERN-EP-2019-184.
doi: 10.1016/j.physletb.2019.135148.

ATLAS Collaboration.

Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector.

The European physical journal / C, 80(11):1080 (1, and PUBDB-2020-05100, arXiv:2006.05880. CERN-EP-2020-074.
doi: 10.1140/epjc/s10052-020-08469-8.

ATLAS Collaboration.

Search for $t\bar{t}$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.

Journal of high energy physics, 10(10):61 (1, and PUBDB-2020-04587, arXiv:2005.05138. CERN-EP-2020-055.
doi: 10.1007/JHEP10(2020)061.

ATLAS Collaboration.

Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector.

Physical review / D, 101(5):052005, and PUBDB-2020-02527, arXiv:1911.12606. CERN-EP-2019-242.
doi: 10.1103/PhysRevD.101.052005.

ATLAS Collaboration.

Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector.

Physics letters / B, 800:135069, and PUBDB-2019-05057, arXiv:1907.06131. CERN-EP-2019-126.
doi: 10.1016/j.physletb.2019.135069.

ATLAS Collaboration.

The ABC130 barrel module prototyping programme for the ATLAS strip tracker.

Journal of Instrumentation, 15(09):P09004, and PUBDB-2021-00611, arXiv:2009.03197.

doi: 10.1088/1748-0221/15/09/P09004.

ATLAS Collaboration.

The ATLAS ITk strip detector system for the High Luminosity LHC upgrade.

Nuclear instruments & methods in physics research / A, 958:162053, and PUBDB-2021-00413.

doi: 10.1016/j.nima.2019.04.007.

ATLAS Collaboration.

Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{NN}} = 8.16$ TeV p +Pb collisions with the ATLAS detector.

The European physical journal / C Particles and fields, 80(1):73, and PUBDB-2020-02543, arXiv:1910.13978. CERN-EP-2019-217.

doi: 10.1140/epjc/s10052-020-7624-4.

ATLAS Collaboration.

Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the ATLAS experiment.

Physics letters / B, B802:135262, and PUBDB-2020-02546, arXiv:1910.13396. CERN-EP-2019-182.

doi: 10.1016/j.physletb.2020.135262.

I. Melzer-Pellmann.

Searches for Supersymmetry.

1831205. European Physical Society Conference on High Energy Physics, Ghent (Belgium), 10 Jul 2019 - 17 Jul 2019.

Proceedings of Science / International School for Advanced Studies, vol. (EPS-HEP2019):710, and PUBDB-2020-05249. SISSA, Trieste.

doi: 10.22323/1.364.0710.

K. J. Bae et al.

Fingerprint matching of beyond-WIMP dark matter: neural network approach.

Journal of cosmology and astroparticle physics, 2020(03):042, and PUBDB-2020-01564, DESY-19-109.

doi: 10.1088/1475-7516/2020/03/042.

H. Baer et al.

The ILC as a natural SUSY discovery machine and precision microscope: from light higgsinos to tests of unification.

Physical review / D, 101(9):095026, and PUBDB-2020-02739, arXiv:1912.06643. ILC-2019-001. DESY-19-227. KEK Preprint 2019-53.

doi: 10.1103/PhysRevD.101.095026.

H. Bahl, I. Sobolev and G. Weiglein.

Precise prediction for the mass of the light MSSM Higgs boson for the case of a heavy gluino.

Physics letters / B, 808:135644 (1, and PUBDB-2020-03824, arXiv:1912.10002. DESY-19-235.

doi: 10.1016/j.physletb.2020.135644.

H. Bahl, I. Sobolev and G. Weiglein.

The light MSSM Higgs boson mass for large $\tan\beta$ and complex input parameters.

The European physical journal / C, 80(11):1063 (1, and PUBDB-2020-04597, arXiv:2009.07572. DESY-20-085.

doi: 10.1140/epjc/s10052-020-08637-w.

H. Bahl et al.

Indirect $\mathcal{CP}$ probes of the Higgs-top-quark interaction: current LHC constraints and future opportunities.

Journal of high energy physics, 2020(11):127, and PUBDB-2020-05000, arXiv:2007.08542.

doi: 10.1007/JHEP11(2020)127.

H. Bahl et al.

Theoretical uncertainties in the MSSM Higgs boson mass calculation.

The European physical journal / C Particles and fields, C80(6):497, and PUBDB-2020-02402, arXiv:1912.04199. DESY-19-083. IFT-UAM/CSIC-19-076. MPP-2019-242. arXiv:1912.04199.

doi: 10.1140/epjc/s10052-020-8079-3.

H. Bahl et al.

HL-LHC and ILC sensitivities in the hunt for heavy Higgs bosons.

The European physical journal / C, C80(10):916 (1, and PUBDB-2020-03807, arXiv:2005.14536. BONN-TH 2019-04. DESY-19-093. KA-TP-09-2019. IFT-UAM/CSIC-19-075.

doi: 10.1140/epjc/s10052-020-08472-z.

H. Bahl et al.

Precision calculations in the MSSM Higgs-boson sector with FeynHiggs 2.14.

Computer physics communications, 249:107099, and PUBDB-2020-05246, arXiv:1811.09073. DESY-18-179. CP3-Origins-2018-035. DNR90. IFT-UAM-CSIC-18-095. MPP-2018-229.

doi: 10.1016/j.cpc.2019.107099.

G. Balbi et al.

Measurements of Single Event Upset in ATLAS IBL.

Journal of Instrumentation, 15(06):P06023, and PUBDB-2020-02513, arXiv:2004.14116.

doi: 10.1088/1748-0221/15/06/P06023.

M. C. Bañuls et al.

Simulating Lattice Gauge Theories within Quantum Technologies.

The European physical journal / D, 74(8):165, and PUBDB-2020-04018.

doi: 10.1140/epjd/e2020-100571-8.

T. Bargheer, V. Chestnov and V. Schomerus.

The Multi-Regge Limit from the Wilson Loop OPE.

Journal of high energy physics, 2005(5):2, and PUBDB-2020-01807, arXiv:1906.00990. DESY-19-099.

doi: 10.1007/JHEP05(2020)002.

B. Basso, L. J. Dixon and G. Papathanasiou.

The Origin of the Six-Gluon Amplitude in Planar $\mathcal{N} = 4$ SYM.

Physical review letters, 124(16):161603, and PUBDB-2020-01802, arXiv:2001.05460. SLAC-PUB-17501. DESY 20-002.

DESY-20-002.

doi: 10.1103/PhysRevLett.124.161603.

D. Baumann et al.

Gravitational Collider Physics.

Physical review / D, 101(8):083019, and PUBDB-2020-01596, arXiv:1912.04932. DESY-19-221.

doi: 10.1103/PhysRevD.101.083019.

J. Beacham et al.

Physics beyond colliders at CERN: beyond the Standard Model working group report.

Journal of physics / G, 47(1):010501, and PUBDB-2019-05237, CERN-PBC-REPORT-2018-007.

doi: 10.1088/1361-6471/ab4cd2.

P. Bechtle et al.

HiggsBounds – 5: Testing Higgs Sectors in the LHC 13 TeV Era.

The European physical journal / C, 80(12):1211, and PUBDB-2021-01453, arXiv:2006.06007. BONN-TH-2020-03. DESY-20-093. IFT-UAM/CSIC-20-072. LU 20-27.

doi: 10.1140/epjc/s10052-020-08557-9.

G. Beck et al.

Thermo-electrical modelling of the ATLAS ITk Strip Detector.

Nuclear instruments & methods in physics research / A Accelerators, spectrometers, detectors and associated equipment, 969:164023, and PUBDB-2020-01082, arXiv:2003.00055. DESY-19-195.

doi: 10.1016/j.nima.2020.164023.

A. Behring et al.

The Polarized Transition Matrix Element $A_{gq}(N)$ of the Variable Flavor Number Scheme at $O(\alpha_s^3)$.

Nuclear physics / B, 964:1, and PUBDB-2021-01019, arXiv:2101.05733. DESY-21-003. DO-TH 21/01. TTP 21-001. RISC Report Series 21-01. MSUHEP-21-002. SAGEX-21-01.

doi: 10.1016/j.nuclphysb.2021.115331.

G. Bell, R. Rahn and J. Talbert.

Generic dijet soft functions at two-loop order: uncorrelated emissions.

Journal of high energy physics, 2020(9):15 (1, and PUBDB-2020-03812, arXiv:2004.08396. SI-HEP-2020-11. QFET-2020-01. Nikhef 2020-007. DESY-19-157.

doi: 10.1007/JHEP09(2020)015.

Belle Collaboration.

Dalitz analysis of $D^0 \rightarrow K^- \pi^+ \eta$ decays at Belle.

Physical review / D, 102(1):1, and PUBDB-2020-03127, arXiv:2003.07759. KEK Preprint 2019-60. Belle Preprint 2020-04. KEK Preprint 2020-04. UCHEP-20-01.

doi: 10.1103/PhysRevD.102.012002.

Belle Collaboration.

Dalitz analysis of $D^0 \rightarrow K^- \pi^+ \eta$ decays at Belle.

Physical review / D, 102(1):1, and PUBDB-2020-03128, arXiv:2003.07759. KEK Preprint 2019-60. Belle Preprint 2020-04. KEK Preprint 2020-04. UCHEP-20-01.

doi: 10.1103/PhysRevD.102.012002.

Belle Collaboration.

Evidence for a vector charmonium-like state in $e^+e^- \rightarrow D_s^+ D_s^{*-}(2573)^- + c.c..$

Physical review / D, 101(9):1, and PUBDB-2020-03052, arXiv:2004.02404.

doi: 10.1103/PhysRevD.101.091101.

Belle Collaboration.

Evidence for a vector charmonium-like state in $e^+e^- \rightarrow D_s^+ D_s^{*-}(2573)^- + c.c..$

Physical review / D, 101(9):091101: 1, and PUBDB-2020-03054, arXiv:2004.02404. arXiv:2004.02404.

doi: 10.1103/PhysRevD.101.091101.

Belle Collaboration.

Measurement of $R(D)$ and $R(D^*)$ with a Semileptonic Tagging Method.

Physical review letters, 124(16):161803, and PUBDB-2020-02372, arXiv:1910.05864. Belle-2019-18. KEK-2019-40. arXiv:1910.05864. Belle-2019-18. KEK-2019-40.

doi: 10.1103/PhysRevLett.124.161803.

Belle Collaboration.

Measurement of the charm-mixing parameter y_{CP} in $D^0 \rightarrow K_S^0 \omega$ decays at Belle.

Physical review / D, 102(7):071102, and PUBDB-2020-03954, arXiv:1912.10912. Belle Preprint 2019-22. KEK Preprint 2019-52.

doi: 10.1103/PhysRevD.102.071102.

Belle Collaboration.

Observation of the Radiative Decays of $(1S)$ to χ_{c1} .

Physical review letters, 124(12):122001, and PUBDB-2020-02371, arXiv:1910.10915. Belle preprint 2019-21.

doi: 10.1103/PhysRevLett.124.122001.

Belle Collaboration.

Search for a doubly charged DDK bound state in $(1S, 2S)$ inclusive decays and via direct production in e^+e^- collisions at $\sqrt{s} = 10.520, 10.580$, and 10.867 GeV.

Physical review / D, 102(11):112001 (1, and PUBDB-2020-04747, arXiv:2008.13341. Belle Preprint 2020-10. KEK Preprint 2020-11. arXiv:2008.13341. Belle Preprint 2020-10. KEK Preprint 2020-11.

doi: 10.1103/PhysRevD.102.112001.

Belle Collaboration.

Search for $B^+ \rightarrow \mu^+ \nu_\mu$ and $B^+ \rightarrow \mu^+ N$ with inclusive tagging.

Physical review / D, 101(3):032007, and PUBDB-2021-00557, arXiv:1911.03186. Belle Preprint 2019-17. KEK Preprint 2019-39.

doi: 10.1103/PhysRevD.101.032007.

Belle Collaboration.

Search for B^0 decays to invisible final states ($+\gamma$) at Belle.

Physical review / D, 102(1):1, and PUBDB-2020-03124, arXiv:2004.03826.

doi: 10.1103/PhysRevD.102.012003.

Belle Collaboration.

Search for B^0 decays to invisible final states ($+\gamma$) at Belle.

Physical review / D, 102(1):1, and PUBDB-2020-03125, arXiv:2004.03826.

doi: 10.1103/PhysRevD.102.012003.

Belle Collaboration.

Search for lepton-number- and baryon-number-violating tau decays at Belle.

Physical review / D, 102(11):111101, and PUBDB-2021-00014, arXiv:2010.15361. Belle Preprint 2020-16. KEK Preprint 2020-33.
doi: 10.1103/PhysRevD.102.111101.

Belle Collaboration.

Search for transitions from $\Upsilon(4S)$ and $\Upsilon(5S)$ to $\eta_b(1S)$ and $\eta_b(2S)$ with emission of an ω meson.

Physical review / D, 102(9):092011 (1, and PUBDB-2020-04928, arXiv:2009.11720. Belle Preprint 2020-15. KEK Preprint 2020-17.
doi: 10.1103/PhysRevD.102.092011.

Belle Collaboration.

Study of $B \rightarrow p\bar{p}\pi\pi$.

Physical review / D, 101(5):052012, and PUBDB-2020-03049, arXiv:1912.05999. Belle Preprint 2019-16. KEK Preprint 2019-23.
doi: 10.1103/PhysRevD.101.052012.

Belle Collaboration.

Study of $B \rightarrow p\bar{p}\pi\pi$.

Physical review / D, 101(5):052012, and PUBDB-2020-03050, arXiv:1912.05999. Belle Preprint 2019-16. KEK Preprint 2019-23.
doi: 10.1103/PhysRevD.101.052012.

Belle Collaboration.

Study of electromagnetic decays of orbitally excited Ξ_c baryons.

Physical review / D, 102(7):071103 (1, and PUBDB-2020-04249, arXiv:2009.03951. Belle Preprint 2019-07 KEK Preprint 2020-6.
doi: 10.1103/PhysRevD.102.071103.

Belle Collaboration.

Update of inclusive cross sections of single and pairs of identified light charged hadrons.

Physical review / D, 101(9):092004, and PUBDB-2020-01037, arXiv:2001.10194. Belle Preprint 2020-01. KEK Preprint 2019-56.
doi: 10.1103/PhysRevD.101.092004.

Belle Collaboration.

Update of inclusive cross sections of single and pairs of identified light charged hadrons.

Physical review / D, 101(9):092004, and PUBDB-2020-03037, arXiv:2001.10194. Belle Preprint 2020-01. KEK Preprint 2019-56.
doi: 10.1103/PhysRevD.101.092004.

Belle II Collaboration.

Global decay chain vertex fitting at Belle II.

Nuclear instruments & methods in physics research / A, 976:164269, and PUBDB-2021-00550, arXiv:1901.11198.
doi: 10.1016/j.nima.2020.164269.

B. Spruck.

Belle II Pixel Detector Commissioning and Operational Experience.

1816956. The 28th International Workshop on Vertex Detectors, Lopud (Croatia), 13 Oct 2019 - 18 Oct 2019.

Proceedings of Science / International School for Advanced Studies, 1, and PUBDB-2020-04800.

SISSA, Trieste.

doi: 10.22323/1.373.0015.

Belle-II Collaboration.

Measurement of the integrated luminosity of the Phase 2 data of the Belle II experiment.

Chinese physics / C High energy physics and nuclear physics C, 44(2):021001, and PUBDB-2020-00005, arXiv:1910.05365.
doi: 10.1088/1674-1137/44/2/021001.

Belle-II Collaboration.

The Belle II Physics Book.

Progress of theoretical and experimental physics, 2020(2):029201, and PUBDB-2021-00641, arXiv:1808.10567. KEK Preprint 2018-27. BELLE2-PUB-PH-2018-001. FERMILAB-PUB-18-398-T. JLAB-THY-18-2780. INT-PUB-18-047. UWThPh 2018-26.
doi: 10.1093/ptep/ptaa008.

Belle-II Collaboration and DEPFET Collaboration and PXD Collaboration.

Belle II pixel detector: Performance of final DEPFET modules.

Nuclear instruments & methods in physics research / A, 958:162222, and PUBDB-2021-00501.
doi: 10.1016/j.nima.2019.05.063.

L. Benato et al.

Teaching machine learning with an application in collider particle physics.

09. 5th International Summer School on Intelligent Signal Processing for FrontIer Research and Industry, Huazhong (China), 12 May 2019 - 26 May 2019.

Journal of Instrumentation, vol. 1509:C09011 (1, and PUBDB-2020-04507.

Inst. of Physics, London.

doi: 10.1088/1748-0221/15/09/C09011.

M. Benayoun, L. DelBuono and F. Jegerlehner.

BHLS₂, a New Breaking of the HLS Model and its Phenomenology.

The European physical journal / C, 80(2):81 (1, and PUBDB-2020-04177, arXiv:1903.11034. arXiv:1903.11034.
doi: 10.1140/epjc/s10052-020-7611-9.

M. Benayoun, L. DelBuono and F. Jegerlehner.

Erratum to: BHLS₂, a new breaking of the HLS model and its phenomenology.

The European physical journal / C, 80(3):244 (1), and PUBDB-2020-04178, arXiv:1903.11034.
doi: 10.1140/epjc/s10052-020-7724-1.

A. Bermudez Martinez et al.

The transverse momentum spectrum of low mass Drell-Yan production at next-to-leading order in the parton branching method
The transverse momentum spectrum of low mass Drell-Yan production at next-to-leading order in the parton branching method.

The European physical journal / C Particles and fields, C80(7):598, and PUBDB-2020-02792, arXiv:2001.06488. DESY-20-006.

doi: 10.1140/epjc/s10052-020-8136-y.

J. Bernigaud, I. de Medeiros Varzielas and J. Talbert.

Finite family groups for fermionic and leptiquark mixing patterns.

Journal of high energy physics, 2020(1):194, and PUBDB-2020-00736, DESY-19-091.

doi: 10.1007/JHEP01(2020)194.

C. Beyer et al.

Beyond HEP: Photon and accelerator science computing infrastructure at DESY.

24th International Conference on Computing in High Energy and Nuclear Physics (CHEP 2019), Adelaide (Australia), 4 Nov 2019 - 8 Nov 2019.

The European physical journal / Web of Conferences, vol. 245:07036, and PUBDB-2020-04519.

EDP Sciences, Les Ulis.

doi: 10.1051/epjconf/202024507036.

C. Beyer et al.

Consolidating the interactive analysis and Grid infrastructure at DESY.

24th International Conference on Computing in High Energy and Nuclear Physics, Adelaide (Australia), 4 Nov 2019 - 8 Nov 2019.

The European physical journal / Web of Conferences, vol. 245:07003, and PUBDB-2020-04518.

EDP Sciences, Les Ulis.

doi: 10.1051/epjconf/202024507003.

M. Bhatt et al.

Production of secondary particles in heavy nuclei interactions in supernova remnants.

Astroparticle physics, 123:102490, and PUBDB-2020-04604, arXiv:2006.07018.

doi: 10.1016/j.astropartphys.2020.102490.

T. Biekötter, M. Chakraborti and S. Heinemeyer.

A 96 GeV Higgs boson in the N2HDM.

The European physical journal / C, 80(1):2 (1, and PUBDB-2021-00592, arXiv:1903.11661. IFT-UAM/CSIC-19-034.

doi: 10.1140/epjc/s10052-019-7561-2.

C. Bierlich et al.

Robust Independent Validation of Experiment and Theory: Rivet version 3.

SciPost physics, 8(2):026 (1, and PUBDB-2021-00487, arXiv:1912.05451. MCnet-19-26.

doi: 10.21468/SciPostPhys.8.2.026.

G. Billis, F. J. Tackmann and J. Talbert.

Higher-order Sudakov resummation in coupled gauge theories.

Journal of high energy physics, 2020(3):182, and PUBDB-2020-01565, DESY-19-128.

doi: 10.1007/JHEP03(2020)182.

T. Binder, K. Mukaida and K. Petraki.

Rapid bound-state formation of Dark Matter in the Early Universe.

Physical review letters, 124(16):161102, and PUBDB-2020-01811, arXiv:1910.11288. DESY-19-181. IPMU19-0148.

doi: 10.1103/PhysRevLett.124.161102.

T. Binder et al.

Dark matter bound-state formation at higher order: a non-equilibrium quantum field theory approach.

Journal of high energy physics, 2020(9):86, and PUBDB-2020-03827, arXiv:2002.07145. DESY-20-022.

doi: 10.1007/JHEP09(2020)086.

F. A. Bishara et al.

Renormalization group effects in dark matter interactions.

Journal of high energy physics, 2020(3):89, and PUBDB-2021-00569.

doi: 10.1007/JHEP03(2020)089.

F. Bishara et al.

A New Precision Process at FCC-hh: the diphoton leptonic Wh channel.

Journal of high energy physics, 2007(7):75, and PUBDB-2020-02805, arXiv:2004.06122. DESY-20-054. ZU-TH 09/20.

doi: 10.1007/JHEP07(2020)075.

J. Biteau et al.

Progress in unveiling extreme particle acceleration in persistent astrophysical jets.

Nature astronomy, 4(2):124, and PUBDB-2020-00840, arXiv:2001.09222.

doi: 10.1038/s41550-019-0988-4.

F. Björkeröth et al.

Axion-electron decoupling in nucleophobic axion models.

Physical review / D, 101(3):035027, and PUBDB-2020-01571, DESY 19-194.

doi: 10.1103/PhysRevD.101.035027.

F. Björkeröth et al.

Covert symmetries in the neutrino mass matrix.

Journal of high energy physics, 2002(2):66, and PUBDB-2020-01809, arXiv:1910.00576.

doi: 10.1007/JHEP02(2020)066.

J. de Blas et al.

Higgs Boson studies at future particle colliders.

Journal of high energy physics, 2020(1):139, and PUBDB-2020-01300, DESY-19-079.

doi: 10.1007/JHEP01(2020)139.

J. Blümlein et al.

From Momentum Expansions to Post-Minkowskian Hamiltonians by Computer Algebra Algorithms.

Physics letters / B, 801:135157, and PUBDB-2020-00175, DESY-19-185. DO-TH 19/21. SAGEX-19-25.

doi: 10.1016/j.physletb.2019.135157.

J. Blümlein et al.

Fourth post-Newtonian Hamiltonian dynamics of two-body systems from an effective field theory approach.

Nuclear physics / B Particle physics, 955:115041, and PUBDB-2020-02247, DESY 20-025. DO-TH 20/01. SAGEX-20-03. 2003.01692 [gr-qc].

doi: 10.1016/j.nuclphysb.2020.115041.

- J. Blümlein et al.
Testing binary dynamics in gravity at the sixth post-Newtonian level.
Physics letters / B, 807:135496, and PUBDB-2020-02440, arXiv:2003.07145. DESY-20-044. DO-TH 20/02. SAGEX-20-06.
doi: 10.1016/j.physletb.2020.135496.
- J. Blümlein et al.
The $O(\alpha^2)$ Initial State QED Corrections to $e^+e^- \rightarrow \gamma^*/Z_0^*$.
Nuclear physics / B Particle physics, 956:115055, and PUBDB-2020-02260, arXiv:2003.14289. DESY-18-196. DO-TH 19/31. TTP 19-045. SAGEX 19-34.
doi: 10.1016/j.nuclphysb.2020.115055.
- A. Bohdan et al.
Kinetic Simulation of Nonrelativistic Perpendicular Shocks of Young Supernova Remnants. IV. Electron Heating.
The astrophysical journal / 1, 904(1):12, and PUBDB-2020-04605, DESY 20-136. arXiv:2008.05920.
doi: 10.3847/1538-4357/abbc19.
- A. Bohdan et al.
Kinetic simulations of nonrelativistic perpendicular shocks of young supernova remnants. III. Magnetic reconnection.
The astrophysical journal / 1 Part 1, 893(1):11pp, and PUBDB-2020-01487, DESY 20-067.
doi: 10.3847/1538-4357/ab7cd6.
- K. Bondarenko et al.
Direct detection and complementary constraints for sub-GeV dark matter.
Journal of high energy physics, 2020(3):118, and PUBDB-2020-01343, DESY-19-140.
doi: 10.1007/JHEP03(2020)118.
- Q. R. C. Bonnefoy, E. Dudas and S. Pokorski.
Chiral Froggatt-Nielsen models, gauge anomalies and flavourful axions.
Journal of high energy physics, 2020(1):191, and PUBDB-2020-00739, DESY-19-154.
doi: 10.1007/JHEP01(2020)191.
- Q. Bonnefoy et al.
Infinite Black Hole Entropies at Infinite Distances and Tower of States.
Nuclear physics / B Particle physics, 958:115112, and PUBDB-2020-03012, arXiv:1912.07453. IPHT-T19/163. CPHT096.122019. MPP-2019-257. DESY-19-226. LMU-ASC 54/19.
doi: 10.1016/j.nuclphysb.2020.115112.
- A. Borodin et al.
Imaging Atmospheric Cherenkov Telescope for the TAIGA Observatory—JINR Participation.
Physics of atomic nuclei, 83(2):268, and PUBDB-2020-03245.
doi: 10.1134/S1063778820020076.
- T. Bourton and E. Pomoni.
Instanton counting in class $\mathcal{S}_k$.
Journal of physics / A, 53(16):39, and PUBDB-2021-00544, arXiv:1712.01288. DESY-17-189.
doi: 10.1088/1751-8121/ab6a6d.
- J. Braathen and S. Kanemura.
Two-loop corrections to the Higgs trilinear coupling in models with extended scalar sectors.
40th International Conference on High Energy physics (virtual meeting), Prague (Czech Republic), 28 Jul 2020 - 6 Aug 2020.
PUBDB-2020-04896, OU-HET-1083. DESY-20-217. arXiv:2012.05730.
SISSA, Trieste.
doi: 10.3204/PUBDB-2020-04896.
- L. Brenner et al.
Comparison of unfolding methods using RooFitUnfold.
International journal of modern physics / A, 35(24):2050145, and PUBDB-2021-00464, arXiv:1910.14654.
doi: 10.1142/S0217751X20501456.
- M. D. Brida et al.
Non-perturbative renormalization by decoupling.
Physics letters / B, 807:135571, and PUBDB-2020-02878, WUB/19-05. DESY-19-224.
doi: 10.1016/j.physletb.2020.135571.
- J. W. Broderick et al.
LOFAR 144-MHz follow-up observations of GW170817.
Monthly notices of the Royal Astronomical Society, 494(4):5110, and PUBDB-2020-02149, arXiv:2004.01726.
doi: 10.1093/mnras/staa950.
- R. Brose et al.
Cosmic-ray acceleration and escape from post-adiabatic supernova remnants.
Astronomy and astrophysics, 634:A59, and PUBDB-2020-01392, arXiv:1909.08484.
doi: 10.1051/0004-6361/201936567.
- W. Buchmuller, V. Domcke and K. Schmitz.
From NANOGrav to LIGO with metastable cosmic strings.
Physics letters / B, 811:135914 (1, and PUBDB-2020-04632, arXiv:2009.10649. CERN-TH-2020-157. DESY-20-154.
doi: 10.1016/j.physletb.2020.135914.
- W. Buchmuller et al.
Probing the scale of grand unification with gravitational waves.
Physics letters / B, B809:1, and PUBDB-2020-03575, arXiv:1912.03695. CERN-TH-2019-215. DESY-19-210. IPMU 19-0179.
doi: 10.1016/j.physletb.2020.135764.
- N. Budnev et al.
Status of the TAIGA Experiment: From Cosmic-Ray Physics to Gamma Astronomy in Tunka Valley.
Physics of atomic nuclei, 83(6):905, and PUBDB-2021-01242.
doi: 10.1134/S1063778820060113.
- N. Budnev et al.
TAIGA—A hybrid array for high-energy gamma astronomy and cosmic-ray physics.
15th Vienna Conference on Instrumentation, Vienna (Austria), 18 Feb 2019 - 22 Feb 2019.
Nuclear instruments & methods in physics research / A, vol. 958:162113, and PUBDB-2021-00171.
North-Holland Publ. Co., Amsterdam.
doi: 10.1016/j.nima.2019.04.067.

N. Budnev et al.

TAIGA—an advanced hybrid detector complex for astroparticle physics and high energy gamma-ray astronomy in the Tunka valley.

Journal of Instrumentation, 15(09):26, and PUBDB-2021-00170.

doi: 10.1088/1748-0221/15/09/C09031.

R. Buehler et al.

Search for the imprint of axion-like particles in the highest-energy photons of hard γ -ray blazars.

Journal of cosmology and astroparticle physics, 2009(09):1, and PUBDB-2020-03505, arXiv:2004.09396.

doi: 10.1088/1475-7516/2020/09/027.

I. Burić, V. Schomerus and M. Isachenkov.

Conformal Group Theory of Tensor Structures.

Journal of high energy physics, 2020(10):1, and PUBDB-2020-03813, arXiv:1910.08099. 19-172. DESY-19-172.

doi: 10.1007/JHEP10(2020)004.

I. Burić, V. Schomerus and E. Sobko.

Superconformal blocks: general theory.

Journal of high energy physics, 2020(1):159, and PUBDB-2020-00734, DESY-19-057. arXiv:1904.04852. NORDITA 2019-032.

doi: 10.1007/JHEP01(2020)159.

I. Burić, V. Schomerus and E. Sobko.

The superconformal X -ing equation.

Journal of high energy physics, 10(10):147, and PUBDB-2021-00112, arXiv:2005.13547.

doi: 10.1007/JHEP10(2020)147.

D. Buttazzo et al.

Scalar gauge dynamics and Dark Matter.

Journal of high energy physics, 2020(1):130, and PUBDB-2020-00620, DESY-19-197.

doi: 10.1007/JHEP01(2020)130.

S. Camarda et al.

DYTurbo: fast predictions for Drell–Yan processes.

The European physical journal / C, 80(5):251, and PUBDB-2021-00642, arXiv:1910.07049.

doi: 10.1140/epjc/s10052-020-7757-5.

S. Camarda et al.

Erratum to: DYTurbo: fast predictions for Drell–Yan processes.

The European physical journal / C, 80(5):440, and PUBDB-2021-00643, arXiv:1910.07049.

doi: 10.1140/epjc/s10052-020-7972-0.

C. Caprini et al.

Detecting gravitational waves from cosmological phase transitions with LISA: an update.

Journal of cosmology and astroparticle physics, 2020(03):024, and PUBDB-2020-01346, DESY-19-159.

doi: 10.1088/1475-7516/2020/03/024.

S. Caron-Huot et al.

The Steinmann Cluster Bootstrap for $\mathcal{N} = 4$ Super Yang-Mills Amplitudes.

Proceedings of Science / International School for Advanced Studies, (CORFU2019):003, and PUBDB-2020-

04191, arXiv:2005.06735. DESY-20-087.

doi: 10.22323/1.376.0003.

F. Carta and A. Mininno.

No go for a flow.

Journal of high energy physics, 05(5):108 (1, and PUBDB-2020-04592, arXiv:2002.07816. DESY-20-021.

IFT-UAM/CSIC-20-24.

doi: 10.1007/JHEP05(2020)108.

F. Carta, J. Moritz and A. Westphal.

A landscape of orientifold vacua.

Journal of high energy physics, 2005(5):107 (1, and PUBDB-2020-03839, arXiv:2003.04902. DESY-20-046.

doi: 10.1007/JHEP05(2020)107.

F. Carta et al.

Harmonic Hybrid Inflation.

Journal of high energy physics, 12(12):161, and PUBDB-2021-00110, arXiv:2007.04322. DESY-20-117.

doi: 10.1007/JHEP12(2020)161.

F. Carta et al.

The geometry of SUSY enhancement.

Journal of high energy physics, 2020(2):106, and PUBDB-2020-01348, DESY-19-177.

doi: 10.1007/JHEP02(2020)106.

Y. Chai et al.

Parton distribution functions of Δ^+ on the lattice.

Physical review / D, 102(1):014508, and PUBDB-2020-02979, arXiv:2002.12044.

doi: 10.1103/PhysRevD.102.014508.

R. Cheaib.

Towards First Results on V_{ub} and V_{cb} with the Belle II experiment.

40th International Conference on High Energy physics, Prague (Czech Republic), 28 Jul 2020 - 6 Aug 2020.

Proceedings of Science / International School for Advanced Studies, vol. (ICHEP2020):390, and PUBDB-2020-04996.

SISSA, Trieste.

doi: 10.3204/PUBDB-2020-04996.

K. Chilikin et al.

First search for the $\eta_{c2}(1D)$ in B decays at Belle.

Journal of high energy physics, 2020(5):34, and PUBDB-2020-03043, arXiv:2003.08335. Belle Preprint 2020-02. KEK Preprint 2019-58.

doi: 10.1007/JHEP05(2020)034.

X. Chu, C. Garcia Cely and H. Murayama.

A Practical and Consistent Parametrization of Dark Matter Self-Interactions.

Journal of cosmology and astroparticle physics, 2006(06):043, and PUBDB-2020-02779, arXiv:1908.06067. DESY-19-137.

doi: 10.1088/1475-7516/2020/06/043.

X. Chu, C. Garcia Cely and H. Murayama.

Finite-Size Dark Matter and its Effect on Small-Scale Structure.

Physical review letters, 124(4):041101, and PUBDB-2020-00763, DESY-18-225. arXiv:1901.00075. IPMU18-0207.

doi: 10.1103/PhysRevLett.124.041101.

X. Cid Vidal et al.

Erratum to: New axion searches at flavor factories.

Journal of high energy physics, 2020(6):141, and PUBDB-2021-00402, arXiv:1810.09452. DESY-18-183.
doi: 10.1007/JHEP06(2020)141.

CLICdp Collaboration.

Conformal tracking for all-silicon trackers at future electron-positron colliders.

Nuclear instruments & methods in physics research / A, 956:163304, and PUBDB-2021-00541, arXiv:1908.00256. CLICdp-Pub-2019-003.
doi: 10.1016/j.nima.2019.163304.

CMS Collaboration.

A measurement of the Higgs boson mass in the diphoton decay channel.

Physics letters / B, 805:135425, and PUBDB-2020-01716, arXiv:2002.06398. CMS-HIG-19-004. CERN-EP-2020-004.
doi: 10.1016/j.physletb.2020.135425.

CMS Collaboration.

A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV.

The European physical journal / C Particles and fields C, 80(3):237, and PUBDB-2020-01597, arXiv:1906.05977. CMS-B2G-18-002. CERN-EP-2019-107.
doi: 10.1140/epjc/s10052-020-7773-5.

CMS Collaboration.

A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV.

The European physical journal / C Particles and fields C, 80(3):237, and PUBDB-2020-01598, arXiv:1906.05977. CMS-B2G-18-002. CERN-EP-2019-107.
doi: 10.1140/epjc/s10052-020-7773-5.

CMS Collaboration.

A search for bottom-type, vector-like quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(11):112004, and PUBDB-2021-00709, arXiv:2008.09835. CMS-B2G-19-005. CERN-EP-2020-154.
doi: 10.1103/PhysRevD.102.112004.

CMS Collaboration.

A search for the standard model Higgs boson decaying to charm quarks.

Journal of high energy physics, 2003(3):131, and PUBDB-2020-01711, arXiv:1912.01662. CMS-HIG-18-031. CERN-EP-2019-257.
doi: 10.1007/JHEP03(2020)131.

CMS Collaboration.

Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(3):14, and PUBDB-2020-01700, arXiv:1910.08815. CMS-FSQ-15-009. CERN-EP-2019-151.
doi: 10.1007/JHEP03(2020)014.

CMS Collaboration.

Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV.

Journal of Instrumentation, 15(05):P05002, and PUBDB-2020-02262, arXiv:1910.00079. CMS-PRF-18-001. CERN-EP-2019-179.
doi: 10.1088/1748-0221/15/05/P05002.

CMS Collaboration.

Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, B801:135183, and PUBDB-2020-00481, arXiv:1907.00857. CMS-SUS-18-005. CERN-EP-2019-114.
doi: 10.1016/j.physletb.2019.135183.

CMS Collaboration.

Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 12(12):82 (1, and PUBDB-2020-05199, arXiv:2005.05159. CMS-SMP-19-003. CERN-EP-2020-040.
doi: 10.1007/JHEP12(2020)082.

CMS Collaboration.

Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive $W^\pm$ and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV.

Journal of high energy physics, 2020(6):18, and PUBDB-2020-02640, arXiv:1912.04387. CMS-SMP-18-005. CERN-EP-2019-259.
doi: 10.1007/JHEP06(2020)018.

CMS Collaboration.

Evidence for Top Quark Production in Nucleus-Nucleus Collisions.

Physical review letters, 125(22):222001 (1, and PUBDB-2021-00589, arXiv:2006.11110. CMS-HIN-19-001. CERN-EP-2020-101.
doi: 10.1103/PhysRevLett.125.222001.

CMS Collaboration.

Evidence for WW production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(1):41, and PUBDB-2020-00797, arXiv:1909.06265.
doi: 10.1140/epjc/s10052-019-7541-6.

CMS Collaboration.

Extraction and validation of a new set of CMS PYTHIA8 tunes from underlying-event measurements.

The European physical journal / C, 80(1):4, and PUBDB-2020-00479, arXiv:1903.12179. CMS-GEN-17-001. CERN-EP-2019-007.
doi: 10.1140/epjc/s10052-019-7499-4.

CMS Collaboration.

Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques.

Journal of Instrumentation, 15(06):P06005, and PUBDB-2020-02644, arXiv:2004.08262. FERMILAB-PUB-20-191-CMS. CMS-JME-18-002. CERN-EP-2020-037.
doi: 10.1088/1748-0221/15/06/P06005.

CMS Collaboration.

Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 12(12):85 (1, and PUBDB-2020-05200, arXiv:2006.13251. CMS-HIG-19-003. CERN-EP-2020-107.

doi: 10.1007/JHEP12(2020)085.

CMS Collaboration.

Investigation into the event-activity dependence of $\Upsilon(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2020(11):1, and PUBDB-2020-05203, arXiv:2007.04277. CMS-BPH-14-009. CERN-EP-2020-075.

doi: 10.1007/JHEP11(2020)001.

CMS Collaboration.

Measurement of $B_c(2S)^+$ and $B_c^*(2S)^+$ cross section ratios in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(9):092007, and PUBDB-2021-00496, arXiv:2008.08629. CMS-BPH-19-001. CERN-EP-2020-146.

doi: 10.1103/PhysRevD.102.092007.

CMS Collaboration.

Measurement of CKM matrix elements in single top quark t -channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 808:135609, and PUBDB-2020-02833, arXiv:2004.12181. FERMILAB-PUB-20-190-CMS. CMS-TOP-17-012. CERN-EP-2020-047.

doi: 10.1016/j.physletb.2020.135609.

CMS Collaboration.

Measurement of differential cross sections and charge ratios for t -channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C Particles and fields, 80(5):370, and PUBDB-2020-02261, DFF-10-96. hep-th/9610092. arXiv:1907.08330. CMS-TOP-17-023. CERN-EP-2019-138.

doi: 10.1140/epjc/s10052-020-7858-1.

CMS Collaboration.

Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(1):43, and PUBDB-2020-00792, arXiv:1903.04040.

doi: 10.1140/epjc/s10052-019-7585-7.

CMS Collaboration.

Measurement of properties of $B_s^0 \rightarrow \mu^+ \mu^-$ decays and search for $B^0 \rightarrow \mu^+ \mu^-$ with the CMS experiment.

JHEP reports, 04(4):188, and PUBDB-2020-01697, arXiv:1910.12127. CMS-BPH-16-004. CERN-EP-2019-215.

doi: 10.1007/JHEP04(2020)188.

CMS Collaboration.

Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV.

Journal of high energy physics, 2020(7):1, and PUBDB-

2020-03492, arXiv:2004.00602. CMS-HIN-18-018. CERN-EP-2020-019.

doi: 10.1007/JHEP07(2020)115.

CMS Collaboration.

Measurement of $t\bar{t}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions.

The European physical journal / C, 80(7):658, and PUBDB-2020-04207, arXiv:1904.05237. CMS-TOP-18-004. CERN-EP-2019-028. arXiv:1904.05237. CMS-TOP-18-004. CERN-EP-2019-028.

doi: 10.1140/epjc/s10052-020-7917-7.

CMS Collaboration.

Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S)\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 808:135578, and PUBDB-2020-02831, arXiv:2002.06393. CMS-BPH-18-002. CERN-EP-2020-003. arXiv:2002.06393. CMS-BPH-18-002. CERN-EP-2020-003.

doi: 10.1016/j.physletb.2020.135578.

CMS Collaboration.

Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, D102(3):032007, and PUBDB-2020-03469, arXiv:2001.06899. CMS-SMP-19-004. CERN-EP-2019-262. arXiv:2001.06899. CMS-SMP-19-004. CERN-EP-2019-262.

doi: 10.1103/PhysRevD.102.032007.

CMS Collaboration.

Measurement of the χ_{c1} and χ_{c2} polarizations in proton-proton collisions at $\sqrt{s} = 8$ TeV.

Physical review letters, 124(16):162002, and PUBDB-2020-01713, arXiv:1912.07706. CMS-BPH-13-001. CERN-EP-2019-279.

doi: 10.1103/PhysRevLett.124.162002.

CMS Collaboration.

Measurement of the χ_{c1} and χ_{c2} polarizations in proton-proton collisions at $\sqrt{s} = 8$ TeV.

Physical review letters, 124(16):162002, and PUBDB-2020-01714, arXiv:1912.07706. CMS-BPH-13-001. CERN-EP-2019-279.

doi: 10.1103/PhysRevLett.124.162002.

CMS Collaboration.

Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings.

Journal of high energy physics, 2020(6):76, and PUBDB-2020-02642, arXiv:2002.09902. CMS-SMP-18-007. CERN-EP-2020-007. arXiv:2002.09902. CMS-SMP-18-007. CERN-EP-2020-007.

doi: 10.1007/JHEP06(2020)076.

CMS Collaboration.

Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(7):1, and PUBDB-2020-03489, arXiv:2003.06467. CMS-TOP-18-002. CERN-EP-2020-011. FERMILAB-PUB-20-129-CMS. doi: 10.1007/JHEP07(2020)125.

CMS Collaboration.

Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s} = 13$ Te.

Physical review letters, 124(20):202001, and PUBDB-2020-02263, arXiv:1911.03800. CMS-TOP-19-005. CERN-EP-2019-226. doi: 10.1103/PhysRevLett.124.202001.

CMS Collaboration.

Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 800:135042, and PUBDB-2019-05187, arXiv:1812.10514. CMS-TOP-17-011. CERN-EP-2018-321. doi: 10.1016/j.physletb.2019.135042.

CMS Collaboration.

Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(6):146, and PUBDB-2020-02641, arXiv:1912.09540. CMS-TOP-15-018. CERN-EP-2019-270. doi: 10.1007/JHEP06(2020)146.

CMS Collaboration.

Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(9):092013 (1, and PUBDB-2020-05204, arXiv:2009.07123. CMS-TOP-19-008. CERN-EP-2020-152. doi: 10.1103/PhysRevD.102.092013.

CMS Collaboration.

Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 803:135285, and PUBDB-2020-01696, arXiv:1909.05306. CMS-TOP-18-011. CERN-EP-2019-183. doi: 10.1016/j.physletb.2020.135285.

CMS Collaboration.

Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(3):56, and PUBDB-2020-01694, arXiv:1907.11270. CMS-TOP-18-009. CERN-EP-2019-124. doi: 10.1007/JHEP03(2020)056.

CMS Collaboration.

Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 809:1, and PUBDB-2020-03546, arXiv:2005.01173. CMS-SMP-19-012. CERN-EP-2020-064. FERMILAB-PUB-20-189-CMS. doi: 10.1016/j.physletb.2020.135710.

J. Knolle.

Measurements of top quark properties with the CMS experiment.

LHCP2020: The Eighth Annual Conference on Large Hadron Collider Physics, Online (Online), 25 May 2020 - 30 May 2020. *Proceedings of Science / International School for Advanced Studies*, vol. (LHCP2020):072, and PUBDB-2020-05301. SISSA, Trieste.

doi: 10.3204/PUBDB-2020-05301.

CMS Collaboration.

Measurements of $t\bar{t}H$ production and the CP structure of the Yukawa interaction between the Higgs boson and top quark in the diphoton decay channel.

Physical review letters, 125(6):061801 (1, and PUBDB-2020-03490, arXiv:2003.10866. CMS-HIG-19-013. CERN-EP-2020-028. doi: 10.1103/PhysRevLett.125.061801.

CMS Collaboration.

Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter.

Journal of Instrumentation, 15(06):P06009, and PUBDB-2020-02643, arXiv:2001.06553. CMS-PRF-18-003. CERN-EP-2019-266. arXiv:2001.06553. CMS-PRF-18-003. CERN-EP-2019-266. doi: 10.1088/1748-0221/15/06/P06009.

CMS Collaboration.

Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV.

The European physical journal / C Particles and fields, C80(6):534, and PUBDB-2020-02635, arXiv:1910.08789. CMS-HIN-17-005. CERN-EP-2019-211. doi: 10.1140/epjc/s10052-020-7834-9.

CMS Collaboration.

Multiparticle correlation studies in p Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV.

Physical review / C, 101(1):014912, and PUBDB-2020-00791, arXiv:1904.11519. doi: 10.1103/PhysRevC.101.014912.

CMS Collaboration.

Observation of electroweak production of $W\gamma$ with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 811:135988 (1, and PUBDB-2020-05206, arXiv:2008.10521. CMS-SMP-19-008. CERN-EP-2020-143. doi: 10.1016/j.physletb.2020.135988.

CMS Collaboration.

Observation of the $B_s^0 \rightarrow X(3872)\phi$ decay.

Physical review letters, 125(15):152001, and PUBDB-2020-04210, arXiv:2005.04764. CMS-BPH-17-005. CERN-EP-2020-070. arXiv:2005.04764. CMS-BPH-17-005. CERN-EP-

2020-070.

doi: 10.1103/PhysRevLett.125.152001.

CMS Collaboration.

Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV.

Physical review letters, 125(15):151802 (1, and PUBDB-2020-04213, arXiv:2006.11191. CMS-SMP-19-014. CERN-EP-2020-076.

doi: 10.1103/PhysRevLett.125.151802.

CMS Collaboration.

Observation of the $\Lambda b 0 \rightarrow J/\psi \Lambda$ decay in proton-proton collisions at $s = 13$ TeV.

Physics letters / B, 802:135203, and PUBDB-2020-00802, arXiv:1911.03789. CMS-BPH-19-002. CERN-EP-2019-224. doi: 10.1016/j.physletb.2020.135203.

CMS Collaboration.

Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of Instrumentation, 15(10):P10017, and PUBDB-2020-04214, arXiv:2006.10165. CMS-TRG-17-001. CERN-EP-2020-065.

doi: 10.1088/1748-0221/15/10/P10017.

CMS Collaboration.

Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of Instrumentation, 15(02):P02027, and PUBDB-2020-01710, arXiv:1912.03516. CMS-MUO-17-001. CERN-EP-2019-238.

doi: 10.1088/1748-0221/15/02/P02027.

CMS Collaboration.

Pileup mitigation at CMS in 13 TeV data.

Journal of Instrumentation, 15(09):1, and PUBDB-2020-03487, arXiv:2003.00503. CMS-JME-18-001. CERN-EP-2020-017.

doi: 10.1088/1748-0221/15/09/P09018.

CMS Collaboration.

Production of Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV.

Physics letters / B B, B803:135328, and PUBDB-2020-01600, arXiv:1906.03322. CMS-HIN-18-009. CERN-EP-2019-102.

doi: 10.1016/j.physletb.2020.135328.

CMS Collaboration.

Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions.

Journal of Instrumentation, 15(10):P10002 (1, and PUBDB-2020-04212, arXiv:2006.14359. CERN-EGM-18-001. CERN-EP-2020-105.

doi: 10.1088/1748-0221/15/10/P10002.

CMS Collaboration.

Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B B, B803:135263, and PUBDB-2020-01702, arXiv:1909.09193. CMS-TOP-19-007. CERN-EP-2019-189.

doi: 10.1016/j.physletb.2020.135263.

CMS Collaboration.

Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(1):96, and PUBDB-2020-00794, arXiv:1908.09206. CMS-HIG-18-004. CERN-EP-2019-164.

doi: 10.1007/JHEP01(2020)096.

CMS Collaboration.

Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2003(3):34, and PUBDB-2020-01712, arXiv:1912.01594. CMS-HIG-17-033. CERN-EP-2019-230.

doi: 10.1007/JHEP03(2020)034.

CMS Collaboration.

Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2003(3):65, and PUBDB-2020-01699, arXiv:1910.11634. CMS-HIG-18-023. CERN-EP-2019-231.

doi: 10.1007/JHEP03(2020)065.

CMS Collaboration.

Search for a light charged Higgs boson in the $H^\pm \rightarrow cs$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(7):072001, and PUBDB-2020-04211, arXiv:2005.08900. CMS-HIG-18-021. CERN-EP-2020-057.

doi: 10.1103/PhysRevD.102.072001.

CMS Collaboration.

Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(8):1, and PUBDB-2020-03547, arXiv:2005.08694. CMS-HIG-18-024. CERN-EP-2020-061.

doi: 10.1007/JHEP08(2020)139.

CMS Collaboration.

Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review letters, 124(13):131802, and PUBDB-2020-01715, arXiv:1912.04776. CMS-EXO-19-018. CERN-EP-2019-265.

doi: 10.1103/PhysRevLett.124.131802.

CMS Collaboration.

Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(5):52, and PUBDB-2020-02321, arXiv:2001.04521. CMS-EXO-18-013. CERN-EP-2019-280.

doi: 10.1007/JHEP05(2020)052.

CMS Collaboration.

Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2007(7):126, and PUBDB-2020-03470, arXiv:2001.07763. CMS-HIG-18-015. CERN-EP-2019-277. arXiv:2001.07763. CMS-HIG-18-015. CERN-EP-2019-277.
doi: 10.1007/JHEP07(2020)126.

CMS Collaboration.

Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(3):25, and PUBDB-2020-01602, arXiv:1908.01713. CMS-EXO-18-011. CERN-EP-2019-141.
doi: 10.1007/JHEP03(2020)025.

CMS Collaboration.

Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(3):25, and PUBDB-2020-01603, arXiv:1908.01713. CMS-EXO-18-011. CERN-EP-2019-141.
doi: 10.1007/JHEP03(2020)025.

CMS Collaboration.

Search for decays of the 125 GeV Higgs boson into a Z boson and a ρ or ϕ meson.

Journal of high energy physics, 11(11):39 (1, and PUBDB-2020-05202, arXiv:2007.05122. CMS-HIG-19-012. CERN-EP-2020-120. FERMILAB-PUB-20-340-CMS.
doi: 10.1007/JHEP11(2020)039.

CMS Collaboration.

Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 805:135448, and PUBDB-2020-01709, arXiv:1911.03761. CMS-EXO-19-004. CERN-EP-2019-229.
doi: 10.1016/j.physletb.2020.135448.

CMS Collaboration.

Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(3):189, and PUBDB-2021-00505, arXiv:1907.13179. CMS-SUS-18-006. CERN-EP-2019-154.
doi: 10.1140/epjc/s10052-020-7739-7.

CMS Collaboration.

Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment.

Journal of high energy physics, 2005(5):32, and PUBDB-2020-02320, arXiv:1912.08887. CMS-SUS-19-005. CMS-SUS-19-009. CERN-EP-2019-233.
doi: 10.1007/JHEP05(2020)032.

CMS Collaboration.

Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 806:135502, and PUBDB-2020-02645,

arXiv:2004.05153. FERMILAB-PUB-20-192-CMS. CMS-EXO-19-010. CERN-EP-2020-043.

doi: 10.1016/j.physletb.2020.135502.

CMS Collaboration.

Search for electroweak production of a vector-like T quark using fully hadronic final states.

Journal of high energy physics, 2020(1):36, and PUBDB-2020-00796, arXiv:1909.04721.
doi: 10.1007/JHEP01(2020)036.

CMS Collaboration.

Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(4):171, and PUBDB-2020-01691, arXiv:1908.01115. CMS-HIG-17-027. CERN-EP-2019-147.
doi: 10.1007/JHEP04(2020)171.

CMS Collaboration.

Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(5):33, and PUBDB-2020-02265, arXiv:1911.03947. CMS-EXO-19-012. CERN-EP-2019-222.
doi: 10.1007/JHEP05(2020)033.

CMS Collaboration.

Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(3):103, and PUBDB-2020-01704, arXiv:1911.10267. CMS-HIG-18-017. CERN-EP-2019-170.
doi: 10.1007/JHEP03(2020)103.

CMS Collaboration.

Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 800:135087, and PUBDB-2019-05193, arXiv:1907.07235. CMS-HIG-18-006. CERN-EP-2019-105.
doi: 10.1016/j.physletb.2019.135087.

CMS Collaboration.

Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow \ell^+ \ell^- b\bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2003(3):55, and PUBDB-2020-01708, arXiv:1911.03781. CMS-HIG-18-012. CERN-EP-2019-254.
doi: 10.1007/JHEP03(2020)055.

CMS Collaboration.

Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(8):752, and PUBDB-2020-03471, arXiv:2001.10086. CMS-SUS-19-008. CERN-EP-2020-001. arXiv:2001.10086. CMS-SUS-19-008. CERN-EP-2020-001.

doi: 10.1140/epjc/s10052-020-8168-3.

CMS Collaboration.

Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2003(3):51, and PUBDB-2020-01707, arXiv:1911.04968. CMS-EXO-19-002. CERN-EP-2019-237.

doi: 10.1007/JHEP03(2020)051.

CMS Collaboration.

Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(2):75, and PUBDB-2020-00793, arXiv:1908.06463. CMS-TOP-18-003. CERN-EP-2019-163.

doi: 10.1140/epjc/s10052-019-7593-7.

CMS Collaboration.

Search for resonant pair production of Higgs bosons in the $bbZZ$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(3):032003 (1, and PUBDB-2020-03549, arXiv:2006.06391. CMS-HIG-18-013. CERN-EP-2020-079.

doi: 10.1103/PhysRevD.102.032003.

CMS Collaboration.

Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV with 137 fb^{-1} in final states with a single lepton using the sum of masses of large-radius jets.

Physical review / D, 101(5):052010, and PUBDB-2020-01706, arXiv:1911.07558. CMS-SUS-19-007. CERN-EP-2019-213.

doi: 10.1103/PhysRevD.101.052010.

CMS Collaboration.

Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum.

Journal of high energy physics, 2020(9):149, and PUBDB-2020-04215, arXiv:2008.04422. CMS-SUS-19-013. CERN-EP-2020-149. arXiv:2008.04422. CMS-SUS-19-013. CERN-EP-2020-149.

doi: 10.1007/JHEP09(2020)149.

CMS Collaboration.

Search for supersymmetry with a compressed mass spectrum in events with a soft τ lepton, a highly energetic jet, and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review letters, 124(4):041803, and PUBDB-2020-00800, arXiv:1910.01185.

doi: 10.1103/PhysRevLett.124.041803.

CMS Collaboration.

Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Journal of high energy physics, 2020(2):15, and PUBDB-2020-00801, CMS-PAS-SUS-19-003. arXiv:1910.12932.

doi: 10.1007/JHEP02(2020)015.

CMS Collaboration.

Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(1):3, and PUBDB-2020-00483, arXiv:1909.03460. CMS-SUS-19-005. CERN-EP-2019-180.

doi: 10.1140/epjc/s10052-019-7493-x.

CMS Collaboration.

Strange hadron production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV.

Physical review / C covering nuclear physics, 101(6):064906, and PUBDB-2020-02636, arXiv:1910.04812. CMS-HIN-16-013. CERN-EP-2018-213.

doi: 10.1103/PhysRevC.101.064906.

CMS Collaboration.

Studies of charm quark diffusion inside jets using PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV.

Physical review letters, 125(10):102001 (1, and PUBDB-2020-03468, arXiv:1911.01461. CMS-HIN-18-007. CERN-EP-2019-247.

doi: 10.1103/PhysRevLett.125.102001.

CMS Collaboration.

Study of central exclusive $\pi^+\pi^-$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV.

The European physical journal / C, 80(8):1, and PUBDB-2020-03488, arXiv:2003.02811. CMS-FSQ-16-006. CERN-EP-2020-005.

doi: 10.1140/epjc/s10052-020-8166-5.

CMS Collaboration.

Study of excited Λ_b^0 states decaying to $\Lambda_b^0 \pi^+ \pi^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physics letters / B, 803:135345, and PUBDB-2020-01719, arXiv:2001.06533. CMS-BPH-19-003. CERN-EP-2019-288.

doi: 10.1016/j.physletb.2020.135345.

CMS Collaboration.

Study of J/ψ meson production inside jets in pp collisions at $\sqrt{s} = 8$ TeV.

Physics letters / B, 804:135409, and PUBDB-2020-01701, arXiv:1910.01686. CMS-BPH-15-003. CERN-EP-2019-186.

doi: 10.1016/j.physletb.2020.135409.

CMS Collaboration.

The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV.

Journal of high energy physics, 2020(7):116, and PUBDB-2020-02832, arXiv:2003.12797. FERMILAB-PUB-20-194-CMS. CMS-HIN-18-016. CERN-EP-2020-032.

doi: 10.1007/JHEP07(2020)116.

CMS Collaboration.

W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV.

Physical review / D, 102(9):092001 (1, and PUBDB-2020-05205, arXiv:2009.00119. CMS-SMP-18-004. CERN-EP-2020-144.

doi: 10.1103/PhysRevD.102.092001.

CMS Collaboration and ATLAS Collaboration.

Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV.

Journal of high energy physics, PUBDB-2020-02301, CMS-TOP-19-004. ATLAS-TOPQ-2018-02. CERN-EP-2020-012. arXiv:2005.03799.

doi: 10.3204/PUBDB-2020-02301.

CMS Collaboration and TOTEM Collaboration.

Measurement of single-diffractive dijet production in proton-proton collisions at $s = \sqrt{s} = 8$ TeV with the CMS and TOTEM experiments.

The European physical journal / C, 80(12):1164, and PUBDB-2021-00704, arXiv:2002.12146. CMS-FSQ-12-033. TOTEM-2020-001. CERN-EP-2019-260.

doi: 10.1140/epjc/s10052-020-08562-y.

I. Coman, E. Pomoni and J. Teschner.

Trinion Conformal Blocks from Topological strings.

Journal of high energy physics, 2020(9):78 (1, and PUBDB-2020-03808, arXiv:1906.06351. DESY-19-106.

doi: 10.1007/JHEP09(2020)078.

F. Coti Zelati et al.

Spectral characterization of the non-thermal X-ray emission of gamma-ray pulsars.

Monthly notices of the Royal Astronomical Society, 492(1):1025, and PUBDB-2021-00256, arXiv:1912.03953.

doi: 10.1093/mnras/stz3485.

R. Pillera et al.

A fast muon tagger method for Imaging Atmospheric Cherenkov Telescopes.

18th Incontri di Fisica delle Alte Energie, Naples (Italy), 8 Apr 2019 - 10 Aug 2019.

Il nuovo cimento / C, vol. 43:90, and PUBDB-2021-00382.

Ed. Compositori, Bologna [u.a.]

doi: 10.1393/ncc/i2020-20090-7.

S. T. Cunliffe.

Dark sector physics with Belle II.

European Physical Society Conference on High Energy Physics, Ghent (Belgium), 10 Jul 2019 - 17 Jul 2019.

Proceedings of Science / International School for Advanced Studies, 1, and PUBDB-2020-03889.

SISSA, Trieste.

G. Cuomo et al.

Gapped Goldstones at the cut-off scale: a non-relativistic EFT.

PUBDB-2021-01339, arXiv:2005.12924. DESY-20-086.

doi: 10.1007/JHEP02(2021)068.

M. L. Czakon et al.

Top quark pair production at complete NLO accuracy with NNLO+NNLL' corrections in QCD.

Chinese physics / C, 44(8):083104 (1, and PUBDB-2020-03828, arXiv:1901.08281. 20-024.

doi: 10.1088/1674-1137/44/8/083104.

D0 Collaboration.

Studies of $X(3872)$ and $\psi(2S)$ production in $p\bar{p}$ collisions at 1.96 TeV.

Physical review / D, 102(7):072005 (1, and PUBDB-2021-

00159, arXiv:2007.13420. FERMILAB-PUB-20-363-E.

doi: 10.1103/PhysRevD.102.072005.

G. Das, M. C. Kumar and K. Samanta.

Resummed inclusive cross-section in ADD model at N^3LL .

Journal of high energy physics, 10(10):161 (1, and PUBDB-2020-04591, arXiv:1912.13039. DESY-19-171.

doi: 10.1007/JHEP10(2020)161.

G. Das, S.-O. Moch and A. Vogt.

Soft corrections to inclusive deep-inelastic scattering at four loops and beyond.

Journal of high energy physics, 2020(3):116, and PUBDB-2020-01298, arXiv:1912.12920. SI-HEP-2019-21. DESY 19-088. LTH 1205. DESY-19-088.

doi: 10.1007/JHEP03(2020)116.

J. De Blas et al.

HEPfit: a Code for the Combination of Indirect and Direct Constraints on High Energy Physics Models.

The European physical journal / C Particles and fields, C80(5):456, and PUBDB-2020-02403, arXiv:1910.14012.

CERN-TH-2019-178. CPHT-RR060.102019. DESY-19-184. FTUV/19-1031. IFIC/19-44. KEK-TH-2163. LPT-Orsay-19-36.

PSI-PR-19-22. UCI-TR-2019-26.

doi: 10.1140/epjc/s10052-020-7904-z.

M. Defranchis.

Probing QCD using top quark pair production at $\sqrt{s} = 13$ TeV in CMS.

1781734. European Physical Society Conference on High Energy Physics, Ghent (Belgium), 10 Jul 2019 - 17 Jul 2019.

Proceedings of Science / International School for Advanced Studies, vol. (EPS-HEP2019):679, and PUBDB-2020-05250, arXiv:2002.09288.

SISSA, Trieste.

doi: 10.22323/1.364.0679.

V. Del Duca et al.

All-order amplitudes at any multiplicity in the multi-Regge limit.

Physical review letters, 124(16):161602, and PUBDB-2020-01808, arXiv:1912.00188. DESY-19-180. CERN-TH-2019-

204. IPPP/19/86. UUITP-48/19. SLAC-PUB-17491.

doi: 10.1103/PhysRevLett.124.161602.

F. Depta, M. Hufnagel and K. Schmidt-Hoberg.

Robust cosmological constraints on axion-like particles.

Journal of cosmology and astroparticle physics, 2005(05):009, and PUBDB-2020-01803, arXiv:2002.08370.

DESY-20-003.

doi: 10.1088/1475-7516/2020/05/009.

P. F. Depta et al.

Complete leading-order standard model corrections to quantum leptogenesis.

Journal of high energy physics, 09(9):36, and PUBDB-2020-04596, arXiv:2005.01728. DESY-20-065.

doi: 10.1007/JHEP09(2020)036.

L. Di Luzio.

Accidental SO(10) axion from gauged flavour.

Journal of high energy physics, 11(11):074, and PUBDB-2020-04602, arXiv:2008.09119. DESY 20-133.
doi: 10.1007/JHEP11(2020)074.

L. Di Luzio.

Pati-Salam axion.

Journal of high energy physics, 2020(7):71 (1, and PUBDB-2020-04204, DESY-20-071. arXiv:2005.00012.
doi: 10.1007/JHEP07(2020)071.

L. Di Luzio et al.

Solar Axions Cannot Explain the XENON1T Excess.

Physical review letters, 125(13):131804 (1, and PUBDB-2020-04203, DESY-20-106. arXiv:2006.12487.
doi: 10.1103/PhysRevLett.125.131804.

L. Di Luzio et al.

The landscape of QCD axion models.

Physics reports, 870:1, and PUBDB-2020-03829, arXiv:2003.01100. DESY-20-036.
doi: 10.1016/j.physrep.2020.06.002.

M. Diehl, A. Manashov and A. Schafer.

Erratum to: Chiral perturbation theory for nucleon generalized parton distributions.

The European physical journal / A, 56(8):220, and PUBDB-2021-00484, hep-ph/0608113. DESY-06-123.
doi: 10.1140/epja/s10050-020-00193-x.

M. Diehl and P. Stienemeier.

Gluons and sea quarks in the proton at low scales.

The European physical journal / Plus Plus, 135(2):211, and PUBDB-2020-00735, DESY-19-068. arXiv:1904.10722.
doi: 10.1140/epjp/s13360-020-00200-6.

M. Diehl et al.

Sum rule improved double parton distributions in position space.

The European physical journal / C Particles and fields, 80(5):468, and PUBDB-2020-02353, DESY-20-011. arXiv:2001.10428. CERN-TH-2020-014.
doi: 10.1140/epjc/s10052-020-8038-z.

V. F. Domcke, R. Jinno and H. Rubira.

Deformation of the gravitational wave spectrum by density perturbations.

Journal of cosmology and astroparticle physics, 2006(06):046, and PUBDB-2020-03179, arXiv:2002.11083. DESY-20-029.
doi: 10.1088/1475-7516/2020/06/046.

V. F. Domcke et al.

Measuring the net circular polarization of the stochastic gravitational wave background with interferometers.

Journal of cosmology and astroparticle physics, 2005(05):1, and PUBDB-2020-03805, arXiv:1910.08052. DESY-19-161.
doi: 10.1088/1475-7516/2020/05/028.

V. F. Domcke et al.

Resonant backreaction in axion inflation.

Journal of cosmology and astroparticle physics, 2009(09):009 (1, and PUBDB-2020-03826, arXiv:2002.02952. DESY-20-017.
doi: 10.1088/1475-7516/2020/09/009.

V. F. Domcke et al.

Spontaneous Baryogenesis from Axions with Generic Couplings.

Journal of high energy physics, 08(8):096, and PUBDB-2020-04599, arXiv:2006.03148. DESY-20-100. CERN-TH-2020-088. TU-1102.
doi: 10.1007/JHEP08(2020)096.

V. Domcke, Y. Ema and K. Mukaida.

Chiral anomaly, Schwinger effect, Euler-Heisenberg Lagrangian and application to axion inflation.

Journal of high energy physics, 2020(2):55, and PUBDB-2020-01347, DESY-19-166.
doi: 10.1007/JHEP02(2020)055.

P. Drechsel, G. Moortgat-Pick and G. Weiglein.

Prospects for direct searches for light Higgs bosons at the IL-C with 250 GeV.

The European physical journal / C, 80(10):922, and PUBDB-2020-03907, DESY-20-083. arXiv:1801.09662.
doi: 10.1140/epjc/s10052-020-08438-1.

J. A. Dror et al.

Testing the Seesaw Mechanism and Leptogenesis with Gravitational Waves.

Physical review letters, 124(4):041804, and PUBDB-2020-00737, DESY-19-138.
doi: 10.1103/PhysRevLett.124.041804.

M. Duerr et al.

Invisible and displaced dark matter signatures at Belle II.

Journal of high energy physics, 2020(2):39, and PUBDB-2020-00738, DESY-19-141. OUP-19-10P. TTK-19-46. arXiv:1911.03176.
doi: 10.1007/JHEP02(2020)039.

M. A. Ebert and F. J. Tackmann.

Impact of isolation and fiducial cuts on q_T and N-jettiness subtractions.

Journal of high energy physics, 2020(3):158, and PUBDB-2020-01355, arXiv:1911.08486. DESY-19-199. MIT-CTP/5158.
doi: 10.1007/JHEP03(2020)158.

A. Elwood, D. Krücker and M. Shchedrolosiev.

Direct optimization of the discovery significance in machine learning for new physics searches in particle colliders.

Journal of physics / Conference Series, 1525:012110, and PUBDB-2020-04526.
doi: 10.1088/1742-6596/1525/1/012110.

Y. Ema, R. Jinno and K. Nakayama.

High-frequency Graviton from Inflaton Oscillation.

Journal of cosmology and astroparticle physics, 09(09):015, and PUBDB-2020-04600, arXiv:2006.09972. DESY-20-104.
doi: 10.1088/1475-7516/2020/09/015.

Y. Ema, K. Mukaida and J. M. v. d. Vis.

Higgs inflation as nonlinear sigma model and scalaron as its σ -meson.

Journal of high energy physics, 11(11):11 (1, and PUBDB-2020-04593, arXiv:2002.11739. DESY-20-031.
doi: 10.1007/JHEP11(2020)011.

F. Erben et al.

Rho resonance, timelike pion form factor, and implications for lattice studies of the hadronic vacuum polarization.

Physical review / D D, 101(5):054504, and PUBDB-2020-01787, arXiv:1910.01083. MITP/19-062. DESY-19-165. MITP/19-062 DESY 19-165.
doi: 10.1103/PhysRevD.101.054504.

C. Eröncel, J. Hubisz and G. Rigo.

Radion-activated Higgs mechanism.

Physical review / D D, 101(5):055041, and PUBDB-2020-01843, arXiv:1912.11053. DESY 19-236. DESY-19-236.
doi: 10.1103/PhysRevD.101.055041.

P. Faccioli, C. Lourenco and T. Madlener.

From prompt to direct J/ψ production: new insights on the χ_{c1} and χ_{c2} polarizations and feed-down contributions from a global-fit analysis of mid-rapidity LHC data.

The European physical journal / C, 80(7):623, and PUBDB-2020-04856, arXiv:2006.15446.
doi: 10.1140/epjc/s10052-020-8201-6.

Factory, Nearby Supernova.

Strong Dependence of Type Ia Supernova Standardization on the Local Specific Star Formation Rate.

Astronomy and astrophysics, 644:A176 (1, and PUBDB-2021-00136, arXiv:1806.03849.
doi: 10.1051/0004-6361/201730404.

R. A. Fallows et al.

A LOFAR observation of ionospheric scintillation from two simultaneous travelling ionospheric disturbances.

Journal of space weather and space climate, 10:10, and PUBDB-2021-00345.
doi: 10.1051/swsc/2020010.

Fermi-LAT Collaboration.

The Fourth Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope.

The astrophysical journal, 892(2):105, and PUBDB-2021-00152, arXiv:1905.10771.
doi: 10.3847/1538-4357/ab791e.

N. Fonseca de Sa et al.

Axion fragmentation.

Journal of high energy physics, 2020(4):10, and PUBDB-2020-01572, DESY-19-202.
doi: 10.1007/JHEP04(2020)010.

N. Fonseca et al.

Relaxion Fluctuations (Self-stopping Relaxion) and Overview of Relaxion Stopping Mechanisms.

Journal of high energy physics, 2005(5):80, and PUBDB-2020-02404, arXiv:1911.08473. DESY-19-203.
doi: 10.1007/JHEP05(2020)080.

A. Franckowiak et al.

Patterns in the multi-wavelength behavior of candidate neutrino blazars.

The astrophysical journal / 1 Part 1, 893(2):162, and PUBDB-2020-02147, arXiv:2001.10232.
doi: 10.3847/1538-4357/ab8307.

H. Fukaya et al.

Atiyah-Patodi-Singer index on a lattice.

Progress of theoretical and experimental physics, 2020(4):043B04, and PUBDB-2020-02367, arXiv:1910.09675. OU-HET-1027.
doi: 10.1093/ptep/ptaa031.

L. Funcke, K. Jansen and S. Kühn.

Topological vacuum structure of the Schwinger model with matrix product states.

Physical review / D D, 101(5):054507, and PUBDB-2020-02139, arXiv:1908.00551.
doi: 10.1103/PhysRevD.101.054507.

S. Gangal et al.

Higgs Production at NNLL' +NNLO using Rapidity Dependent Jet Vetoes.

Journal of high energy physics, 2020(5):54, and PUBDB-2020-02405, arXiv:2003.04323. CERN-TH-2020-036. DESY-20-035. TIFR/TH/20-7.
doi: 10.1007/JHEP05(2020)054.

D. García-Fernández, A. Nelles and C. Glaser.

Signatures of secondary leptons in radio-neutrino detectors in ice.

Physical review / D, 102(8):083011, and PUBDB-2020-03984, arXiv:2003.13442. DESY-20-055.
doi: 10.1103/PhysRevD.102.083011.

D. García-Fernández, A. Nelles and C. Glaser.

Signatures of secondary leptons in radio-neutrino detectors in ice.

PUBDB-2021-01490, arXiv:2003.13442. DESY-20-055.
doi: 10.3204/PUBDB-2021-01490.

M. Garny, T. Konstandin and H. Rubira.

The Schrödinger-Poisson method for Large-Scale Structure.

Journal of cosmology and astroparticle physics, 2020(04):003, and PUBDB-2020-01567, DESY-19-176.
doi: 10.1088/1475-7516/2020/04/003.

F. de Gasperin et al.

Cassiopeia A, Cygnus A, Taurus A, and Virgo A at ultra-low radio frequencies.

Astronomy and astrophysics, 635:A150, and PUBDB-2021-00259, arXiv:2002.10431.
doi: 10.1051/0004-6361/201936844.

F. Giese, T. Konstandin and J. van de Vis.

Model-independent energy budget of cosmological first-order phase transitions—A sound argument to go beyond the bag model.

Journal of cosmology and astroparticle physics, 07:057, and PUBDB-2020-03913, arXiv:2004.06995. DESY-20-064.
doi: 10.1088/1475-7516/2020/07/057.

- A. Gimenez Grau and P. Liendo.
Bootstrapping line defects in $\mathcal{N} = 2$ theories.
Journal of high energy physics, 2020(3):121, and PUBDB-2020-01342, DESY-19-126.
 doi: 10.1007/JHEP03(2020)121.
- A. Gimenez Grau et al.
A quantum framework for AdS/dCFT through fuzzy spherical harmonics on S^4 .
Journal of high energy physics, 2004(4):132, and PUBDB-2020-01842, arXiv:1912.02468. DESY-19-220.
 doi: 10.1007/JHEP04(2020)132.
- C. Glaser et al.
NuRadioMC: Simulating the radio emission of neutrinos from interaction to detector.
The European physical journal / C, 80(2):77 (1, and PUBDB-2020-04162, arXiv:1906.01670.
 doi: 10.1140/epjc/s10052-020-7612-8.
- A. Glazov.
Defiducialization: providing experimental measurements for accurate fixed-order predictions.
The European physical journal / C, 80(9):1, and PUBDB-2020-03608, arXiv:2001.02933. DESY-20-001.
 doi: 10.1140/epjc/s10052-020-08435-4.
- Y. Gouttenoire, G. Servant and P. Simakachorn.
Beyond the Standard Models with Cosmic Strings.
Journal of cosmology and astroparticle physics, 2007(07):032, and PUBDB-2020-03011, arXiv:1912.02569. DESY-19-204.
 doi: 10.1088/1475-7516/2020/07/032.
- Y. Gouttenoire, G. Servant and P. Simakachorn.
BSM with Cosmic Strings: Heavy, up to EeV mass, Unstable Particles.
Journal of cosmology and astroparticle physics, 2007(07):016, and PUBDB-2020-02780, arXiv:1912.03245. DESY-19-206.
 doi: 10.1088/1475-7516/2020/07/016.
- D. Green and R. A. Porto.
Signals of a Quantum Universe.
Physical review letters, 124(25):251302, and PUBDB-2021-00150, arXiv:2001.09149. arXiv:2001.09149.
 doi: 10.1103/PhysRevLett.124.251302.
- D. Green and R. A. Porto.
Signals of a Quantum Universe.
Physical review letters, 124(25):251302, and PUBDB-2021-00151, arXiv:2001.09149.
 doi: 10.1103/PhysRevLett.124.251302.
- J. R. Green, K. Jansen and F. Steffens.
Improvement, generalization, and scheme conversion of Wilson-line operators on the lattice in the auxiliary field approach.
Physical review / D, 101(7):074509, and PUBDB-2020-01528, arXiv:2002.09408. CERN-TH-2020-028.
 doi: 10.1103/PhysRevD.101.074509.
- Group, Belle II Tracking.
Track finding at Belle II.
Computer physics communications, 259:107610, and PUBDB-2020-05261, arXiv:2003.12466. arXiv:2003.12466.
 doi: 10.1016/j.cpc.2020.107610.
- A. G. Grozin et al.
Matching Heavy-Quark Fields in QCD and HQET at 4 Loops.
Physics of atomic nuclei, 83(6):994, and PUBDB-2021-01237.
 doi: 10.1134/S1063778820060174.
- H. E. S. S. Collaboration.
An extreme particle accelerator in the Galactic plane: HESS J1826–130.
Astronomy and astrophysics, 644:A112, and PUBDB-2021-00193, arXiv:2010.13101.
 doi: 10.1051/0004-6361/202038851.
- H. E. S. S. Collaboration.
An extreme particle accelerator in the Galactic plane: HESSJ1826-130.
 PUBDB-2020-04665, arXiv:2010.13101.
 doi: 10.3204/PUBDB-2020-04665.
- H. E. S. S. Collaboration.
H.E.S.S. and Fermi-LAT observations of PSR B1259-63/LS 2883 during its 2014 and 2017 periastron passages.
Astronomy and astrophysics, 633:A102, and PUBDB-2020-00085, arXiv:1912.05868.
 doi: 10.1051/0004-6361/201936621.
- H. E. S. S. Collaboration.
Probing in the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations.
The astrophysical journal / 1, 894(2):1, and PUBDB-2020-02137, arXiv:2004.10105.
 doi: 10.3847/2041-8213/ab8b59.
- H. E. S. S. Collaboration.
Resolving acceleration to very high energies along the jet of Centaurus A.
Nature / Physical science, 582(7812):356, and PUBDB-2020-04663, arXiv:2007.04823.
 doi: 10.1038/s41586-020-2354-1.
- H. E. S. S. Collaboration.
Search for dark matter signals towards a selection of recently detected DES dwarf galaxy satellites of the Milky Way with H.E.S.S.
Physical review / D, 102(6):062001 (1, and PUBDB-2020-03507, arXiv:2008.00688.
 doi: 10.1103/PhysRevD.102.062001.
- H. E. S. S. Collaboration.
Very high energy γ -ray emission from two blazars of unknown redshift and upper limits on their distance.
Monthly notices of the Royal Astronomical Society, 494(4):5590, and PUBDB-2020-04669, arXiv:2004.03306.
 doi: 10.1093/mnras/staa999.

- H. E. S. S. Collaboration and NuSTAR Collaboration and Fermi-LAT Collaboration and Swift Collaboration.
Simultaneous observations of the blazar PKS 2155–304 from ultra-violet to TeV energies.
Astronomy and astrophysics, 639:A42, and PUBDB-2020-04667, arXiv:1912.07273.
doi: 10.1051/0004-6361/201936900.
- R. Zlebcik.
Diffraction PDF determination from HERA inclusive and jet data at NNLO QCD.
1831245. XXVII International Workshop on Deep Inelastic Scattering and Related Subjects, Turin (Italy), 8 Jul 2019 - 12 Jul 2019.
Proceedings of Science / International School for Advanced Studies, vol. (EPS-HEP2019):500, and PUBDB-2020-05019. SISSA, Trieste.
doi: 10.22323/1.364.0500.
- H1 Collaboration.
Measurement of Exclusive $\pi^+\pi^-$ and ρ^0 Meson Photoproduction at HERA.
The European physical journal / C, 80(12):1189, and PUBDB-2021-00100, arXiv:2005.14471. DESY-20-080.
doi: 10.1140/epjc/s10052-020-08587-3.
- M. Habermehl, C. M. Berggren and J. List.
WIMP dark matter at the International Linear Collider.
Physical review / D, 101(7):075053 (1, and PUBDB-2020-04905, 2001.03011. arXiv:2001.03011. DESY-19-237. ILD-PHYS-2020-001.
doi: 10.1103/PhysRevD.101.075053.
- E. Hall et al.
Baryogenesis from a dark first-order phase transition.
Journal of high energy physics, 2020(4):42, and PUBDB-2020-01566, DESY-19-175.
doi: 10.1007/JHEP04(2020)042.
- Y. Han et al.
Test beam measurements of an irradiated prototype pixel sensor designed for the CEPC vertex detector.
Nuclear instruments & methods in physics research / A, 977:164267 (1, and PUBDB-2021-00654.
doi: 10.1016/j.nima.2020.164267.
- B. M. Hare et al.
Radio Emission Reveals Inner Meter-Scale Structure of Negative Lightning Leader Steps.
Physical review letters, 124(10):105101, and PUBDB-2021-00190.
doi: 10.1103/PhysRevLett.124.105101.
- B. Heinemann, T. Heinzl and A. Ringwald.
LUXE: Combining high energy and intensity to spark the vacuum.
Europhysics news, 51(4):14, and PUBDB-2020-03385.
doi: 10.1051/epn/2020401.
- J. Heinze et al.
Systematic parameter space study for the UHECR origin from GRBs in models with multiple internal shocks.
Monthly notices of the Royal Astronomical Society, 498(4):5990, and PUBDB-2020-03930, arXiv:2006.14301.
doi: 10.1093/mnras/staa2751.
- N. Henke and G. Papathanasiou.
How tropical are seven- and eight-particle amplitudes?
Journal of high energy physics, 2008(8):5, and PUBDB-2020-03013, arXiv:1912.08254. DESY-19-229.
doi: 10.1007/JHEP08(2020)005.
- H. Marukyan.
Overview of recent HERMES results.
1. XVIII Workshop on High Energy Spin Physics, Dubna (Russia), 2 Sep 2019 - 6 Sep 2019.
Journal of physics / Conference Series, vol. 14351:012041, and PUBDB-2020-01607, HERMES-19-002.
IOP Publ.20382, Bristol.
doi: 10.1088/1742-6596/1435/1/012041.
- HESS Collaboration.
Detection of very-high-energy γ -ray emission from the colliding wind binary η Car with H.E.S.S.
Astronomy and astrophysics, 635:A167 (1, and PUBDB-2020-04670, arXiv:2002.02336.
doi: 10.1051/0004-6361/201936761.
- J. Hoang et al.
MAGIC-II's central pixel system for simultaneous optical and gamma-ray observation.
Journal of astronomical telescopes, instruments, and systems, 6(3):14, and PUBDB-2021-00383.
doi: 10.1117/1.JATIS.6.3.036002.
- M. R. Hoerbe et al.
On the relative importance of hadronic emission processes along the jet axis of Active Galactic Nuclei.
Monthly notices of the Royal Astronomical Society, 496(3):2885, and PUBDB-2020-02974, arXiv:2006.05140.
doi: 10.1093/mnras/staa1650.
- J. C. Hönig et al.
Investigation of nitrogen enriched silicon for particle detectors.
Journal of Instrumentation, 15(05):P05006, and PUBDB-2021-00446.
doi: 10.1088/1748-0221/15/05/P05006.
- R. Horsley et al.
Determining the glue component of the nucleon.
37th International Symposium on Lattice Field Theory, Wuhan (China), 16 Jun 2019 - 22 Jun 2019.
Proceedings of Science / International School for Advanced Studies, vol. (LATTICE2019):220, and PUBDB-2020-03825, arXiv:2001.07639. DESY-20-009. ADP-20-4/T1114. Liverpool LTH 1224.
SISSA, Trieste.
doi: 10.22323/1.363.0220.
- N. Husung, P. Marquard and R. Sommer.
Asymptotic behavior of cutoff effects in Yang-Mills theory and in Wilson's lattice QCD.
The European physical journal / C Particles and fields C, 80(3):200, and PUBDB-2020-01470, DESY-19-188.
doi: 10.1140/epjc/s10052-020-7685-4.

IceCube Collaboration.

A search for IceCube events in the direction of ANITA neutrino candidates.

The astrophysical journal, 892(1):53 (1, and PUBDB-2021-00384, arXiv:2001.01737.

doi: 10.3847/1538-4357/ab791d.

IceCube Collaboration.

A Search for MeV to TeV Neutrinos from Fast Radio Bursts with IceCube.

The astrophysical journal, 890(2):111, and PUBDB-2020-04022, arXiv:1908.09997.

doi: 10.3847/1538-4357/ab564b.

IceCube Collaboration.

A Search for Neutrino Point-source Populations in 7 yr of IceCube Data with Neutrino-count Statistics.

The astrophysical journal, 893(2):102 (1, and PUBDB-2021-00378, arXiv:1909.08623. LCTP-19-19.

doi: 10.3847/1538-4357/ab7af9.

IceCube Collaboration.

An eV-scale sterile neutrino search using eight years of atmospheric muon neutrino data from the IceCube Neutrino Observatory.

Physical review letters, 125(14):141801 (1, and PUBDB-2020-03696, arXiv:2005.12942.

doi: 10.1103/PhysRevLett.125.141801.

IceCube Collaboration.

Characteristics of the diffuse astrophysical electron and tau neutrino flux with six years of IceCube high energy cascade data.

Physical review letters, 125(12):121104 (1, and PUBDB-2020-03506, arXiv:2001.09520.

doi: 10.1103/PhysRevLett.125.121104.

IceCube Collaboration.

Computational techniques for the analysis of small signals in high-statistics neutrino oscillation experiments.

Nuclear instruments & methods in physics research / A, 977:164332, and PUBDB-2021-00145, arXiv:1803.05390.

doi: 10.1016/j.nima.2020.164332.

IceCube Collaboration.

Constraints on neutrino emission from nearby galaxies using the 2MASS redshift survey and IceCube.

Journal of cosmology and astroparticle physics, 07(07):042, and PUBDB-2021-00385, arXiv:1911.11809.

doi: 10.1088/1475-7516/2020/07/042.

IceCube Collaboration.

In-situ calibration of the single-photoelectron charge response of the IceCube photomultiplier tubes.

Journal of Instrumentation, 15(06):P06032, and PUBDB-2020-02976, arXiv:2002.00997.

doi: 10.1088/1748-0221/15/06/P06032.

IceCube Collaboration.

Neutrinos below 100 TeV from the southern sky employing refined veto techniques to IceCube data.

Astroparticle physics, 116:102392, and PUBDB-2020-00328, arXiv:1902.05792. arXiv:1902.05792.

doi: 10.1016/j.astropartphys.2019.102392.

IceCube Collaboration.

Search for PeV Gamma-Ray Emission from the Southern Hemisphere with 5 Years of Data from the IceCube Observatory.

The astrophysical journal, 891(1):9, and PUBDB-2020-04006, arXiv:1908.09918.

doi: 10.3847/1538-4357/ab6d67.

IceCube Collaboration.

Searching for eV-scale sterile neutrinos with eight years of atmospheric neutrinos at the IceCube neutrino telescope.

Physical review / D, D102(5):052009 (1, and PUBDB-2020-03695, arXiv:2005.12943.

doi: 10.1103/PhysRevD.102.052009.

IceCube Collaboration.

Time-integrated Neutrino Source Searches with 10 years of IceCube Data.

Physical review letters, 124(5):051103 (1, and PUBDB-2020-04159, arXiv:1910.08488.

doi: 10.1103/PhysRevLett.124.051103.

Icecube Collaboration.

Cosmic ray spectrum from 250 TeV to 10 PeV using IceTop.

Physical review / D, 102(12):122001, and PUBDB-2020-05257, arXiv:2006.05215.

doi: 10.1103/PhysRevD.102.122001.

Icecube Collaboration.

Design and Performance of the first IceAct Demonstrator at the South Pole.

Journal of Instrumentation, 15(02):T02002, and PUBDB-2020-04572, arXiv:1910.06945.

doi: 10.1088/1748-0221/15/02/T02002.

Icecube Collaboration.

IceCube Search for High-Energy Neutrino Emission from TeV Pulsar Wind Nebulae.

The astrophysical journal, 898(2):117 (1, and PUBDB-2020-04501, arXiv:2003.12071.

doi: 10.3847/1538-4357/ab9fa0.

Icecube Collaboration.

Kilonova Luminosity Function Constraints Based on Zwicky Transient Facility Searches for 13 Neutron Star Merger Triggers during O3.

The astrophysical journal, 905(2):145, and PUBDB-2021-01429, arXiv:2006.11306.

doi: 10.3847/1538-4357/abc335.

Icecube collaboration.

Development of an analysis to probe the neutrino mass ordering with atmospheric neutrinos using three years of IceCube DeepCore data.

The European physical journal / C, C80(1):9, and PUBDB-2020-00189.

doi: 10.1140/epjc/s10052-019-7555-0.

Icecube collaboration and ANTARES Collaboration.

Combined search for neutrinos from dark matter self-annihilation in the Galactic Center with ANTARES and IceCube.

Physical review / D, 102(8):082002 (1, and PUBDB-2020-04573, arXiv:2003.06614.

doi: 10.1103/PhysRevD.102.082002.

IceCube Collaboration and IceCube Collaboration.

IceCube Search for Neutrinos Coincident with Compact Binary Mergers from LIGO-Virgo's First Gravitational-Wave Transient Catalog.

The astrophysical journal, 898(1):1, and PUBDB-2020-02971, arXiv:2004.02910.

doi: 10.3847/2041-8213/ab9d24.

IceCube Collaboration and PICO Collaboration.

Velocity Independent Constraints on Spin-Dependent DM-Nucleon Interactions from IceCube and PICO.

The European physical journal / C, 80(9):819, and PUBDB-2020-03981, arXiv:1907.12509.

doi: 10.1140/epjc/s10052-020-8069-5.

IceCube-Gen2 Collaboration and Members, JUNO Collaboration.

Combined sensitivity to the neutrino mass ordering with JUNO, the IceCube Upgrade, and PINGU.

Physical review / D, 101(3):032006 (1, and PUBDB-2020-04176, arXiv:1911.06745.

doi: 10.1103/PhysRevD.101.032006.

II, Belle.

Search for an Invisibly Decaying Z' Boson at Belle II in $e^+e^- \rightarrow \mu^+\mu^-(e^\pm\mu^\mp)$ Plus Missing Energy Final States.

Physical review letters, 124(14):141801 (1, and PUBDB-2020-03705, arXiv:1912.11276. Belle II Preprint 2019-002. KEK Preprint 2019-55.

doi: 10.1103/PhysRevLett.124.141801.

K. Inomata et al.

Gravitational Wave Production right after a Primordial Black Hole Evaporation.

Physical review / D, 101(12):123533 (1, and PUBDB-2020-03838, arXiv:2003.10455. IPMU 20-0029. DESY-20-042. CTPU-PTC-20-05.

doi: 10.1103/PhysRevD.101.123533.

T. Ishikawa, K. Nakayama and K. Suzuki.

Casimir effect for lattice fermions.

Physics letters / B, 809:135713, and PUBDB-2020-03318, arXiv:2005.10758. DESY-20-094. KEK-TH-2220.

doi: 10.1016/j.physletb.2020.135713.

A. Ivanova et al.

Design features and data acquisition system of the TAIGA-Muon scintillation array.

06. International Conference on Instrumentation for Colliding Beam Physics, Novosibirsk (Russia), 24 Feb 2020 - 28 Feb 2020.

Journal of Instrumentation, vol. 1506:C06057 (1, and PUBDB-2021-00184.

Inst. of Physics, London.

doi: 10.1088/1748-0221/15/06/C06057.

K. Jansen, E. H. Müller and R. Scheichl.

Multilevel Monte Carlo for quantum mechanics on a lattice.

Physical review / D, 102(11):114512, and PUBDB-2021-00141, arXiv:2008.03090.

doi: 10.1103/PhysRevD.102.114512.

R. Jinno et al.

Higgs inflation in metric and Palatini formalisms: required suppression of higher dimensional operators.

Journal of cosmology and astroparticle physics, 2020(03):063, and PUBDB-2020-01563, DESY-19-058.

doi: 10.1088/1475-7516/2020/03/063.

G. W. Kaelin, Z. Liu and R. A. Porto.

Conservative Dynamics of Binary Systems to Third Post-Minkowskian Order from the Effective Field Theory Approach.

Physical review letters, 125(26):261103, and PUBDB-2021-00109, arXiv:2007.04977. DESY-20-114. SLAC-PUB-17545.

doi: 10.1103/PhysRevLett.125.261103.

G. W. Kaelin and R. A. Porto Pereira.

Post-Minkowskian Effective Field Theory for Conservative Binary Dynamics.

Journal of high energy physics, 11(11):106, and PUBDB-2020-04985, arXiv:2006.01184. DESY20-077. SLAC-PUB-17529.

doi: 10.1007/JHEP11(2020)106.

G. Kälin, Z. Liu and R. A. Porto.

Conservative Tidal Effects in Compact Binary Systems to Next-to-Leading Post-Minkowskian Order.

Physical review / D, 102(12):124025, and PUBDB-2020-05050, arXiv:2008.06047. DESY-20-131. SLAC-PUB-17555.

doi: 10.1103/PhysRevD.102.124025.

G. Kälin and R. A. Porto.

From boundary data to bound states.

Journal of high energy physics, 2020(1):72, and PUBDB-2020-00619, arXiv:1910.03008. UUITP-40/19. DESY-19-167.

doi: 10.1007/JHEP01(2020)072.

G. Kälin and R. A. Porto.

From boundary data to bound states. Part II. Scattering angle to dynamical invariants (with twist).

Journal of high energy physics, 2020(2):120, and PUBDB-2020-01333, arXiv:1911.09130. SLAC-PUB-17487. UUITP-46/19. DESY-19-201.

doi: 10.1007/JHEP02(2020)120.

N. Kaloper and A. Westphal.

A Goldilocks Higgs.

Physics letters / B, B808:1, and PUBDB-2020-03010, arXiv:1907.05837. DESY-19-130.

doi: 10.1016/j.physletb.2020.135616.

S.-i. Kawada, J. List and C. M. Berggren.

Prospects of measuring the branching fraction of the Higgs boson decaying into muon pairs at the International Linear Collider.

The European physical journal / C, 80(12):1186, and PUBDB-2020-05273, arXiv:2009.04340. ILD-PHYS-2020-002.

doi: 10.1140/epjc/s10052-020-08729-7.

Z. R. Kordov et al.

Electromagnetic contribution to Σ - Λ mixing using lattice QCD + QED.

Physical review / D, 101(3):034517, and PUBDB-2020-01354, DESY-19-190.

doi: 10.1103/PhysRevD.101.034517.

G. A. Kotousov and S. L. Lukyanov.

Spectrum of the reflection operators in different integrable structures.

Journal of high energy physics, 2020(2):29, and PUBDB-2020-00741, DESY-19-168.

doi: 10.1007/JHEP02(2020)029.

I. Kremastiotis et al.

Design and Characterization of the CLICTD Pixelated Monolithic Sensor Chip.

IEEE transactions on nuclear science, 67(10):2263, and PUBDB-2021-00520.

doi: 10.1109/TNS.2020.3019887.

L. Kuzmichev et al.

Cherenkov EAS arrays in the Tunka astrophysical center: From Tunka-133 to the TAIGA gamma and cosmic ray hybrid detector.

Nuclear instruments & methods in physics research / A, 952:161830, and PUBDB-2021-00340.

doi: 10.1016/j.nima.2019.01.056.

L. Kuzmichev et al.

Experimental Complex TAIGA.

Physics of atomic nuclei, 83(9):1375, and PUBDB-2021-01212.

doi: 10.1134/S1063778820090161.

Y. T. Lai et al.

Development of the Level-1 track trigger with Central Drift Chamber detector in Belle II experiment and its performance in SuperKEKB 2019 Phase 3 operation.

Journal of Instrumentation, 15(06):C06063, and PUBDB-2021-00440.

doi: 10.1088/1748-0221/15/06/C06063.

R. G. Lang et al.

Revisiting the distance to the nearest UHECR source: Effects of extra-galactic magnetic fields.

Physical review / D, 102(6):063012 (1, and PUBDB-2020-03504, arXiv:2005.14275.

doi: 10.1103/PhysRevD.102.063012.

A. K. Lemmens et al.

Far-IR Absorption of Neutral Polycyclic Aromatic Hydrocarbons (PAHs): Light on the Mechanism of IR-UV Ion Dip Spectroscopy.

The journal of physical chemistry letters, 11(21):8997, and PUBDB-2021-01456.

doi: 10.1021/acs.jpclett.0c02714.

LHC Reinterpretation Forum Collaboration.

Reinterpretation of LHC Results for New Physics: Status and Recommendations after Run 2.

SciPost physics, 9(2):022 (1, and PUBDB-2021-00016, arXiv:2003.07868. CERN-LPCC-2020-001. FERMILAB-FN-1098-CMS-T. Imperial/HEP/2020/RIF/01.

doi: 10.21468/SciPostPhys.9.2.022.

LHCb Collaboration.

First branching fraction measurement of the suppressed decay $\Xi_c^0 \rightarrow \pi^- \Lambda_c^+$.

Physical review / D, 102(7):071101 (1, and PUBDB-2021-00415, arXiv:2007.12096. CERN-EP-2020-129. LHCb-

PAPER-2020-016.

doi: 10.1103/PhysRevD.102.071101.

LHCb Collaboration.

Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ and 13 TeV.

The European physical journal / C, 80(3):185, and PUBDB-2021-00354, arXiv:1908.03099. CERN-EP-2019-150. LHCb-PAPER-2018-049.

doi: 10.1140/epjc/s10052-020-7638-y.

LHCb Collaboration.

Measurement of $C P$ violation in $B^0 \rightarrow D^{*\pm} D^{\mp}$ decays.

Journal of high energy physics, 03(3):147 (1, and PUBDB-2021-00173, arXiv:1912.03723. LHCb-PAPER-2019-036. CERN-EP-2019-264.

doi: 10.1007/JHEP03(2020)147.

LHCb Collaboration.

Measurement of the $\eta_c(1S)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV.

The European physical journal / C, 80(3):191 (1, and PUBDB-2021-00436, arXiv:1911.03326. LHCb-PAPER-2019-024. CERN-EP-2019-214.

doi: 10.1140/epjc/s10052-020-7733-0.

LHCb Collaboration.

Measurement of the relative branching fractions of $B^+ \rightarrow h^+ h'^+ h'^-$ decays.

Physical review / D, 102(11):112010 (1, and PUBDB-2021-00426, arXiv:2010.11802. CERN-EP-2020-189. LHCb-PAPER-2020-031.

doi: 10.1103/PhysRevD.102.112010.

LHCb Collaboration.

Observation of a new baryon state in the $\Lambda_b^0 \pi^+ \pi^-$ mass spectrum.

Journal of high energy physics, 06(6):136, and PUBDB-2021-00445, arXiv:2002.05112. CERN-EP-2020-013. LHCb-PAPER-2019-045.

doi: 10.1007/JHEP06(2020)136.

LHCb Collaboration.

Observation of Enhanced Double Parton Scattering in Proton-Lead Collisions at $\sqrt{s_{NN}} = 8.16$ TeV.

Physical review letters, 125(21):212001 (1, and PUBDB-2021-00379, arXiv:2007.06945. LHCb-PAPER-2020-010. CERN-EP-2020-119.

doi: 10.1103/PhysRevLett.125.212001.

LHCb Collaboration.

Observation of the semileptonic decay $B^+ \rightarrow p \bar{p} \mu^+ \nu_\mu$.

Journal of high energy physics, 03(3):146 (1, and PUBDB-2021-00176, arXiv:1911.08187. LHCb-PAPER-2019-034. CERN-EP-2019-236.

doi: 10.1007/JHEP03(2020)146.

LHCb Collaboration.

Search for $A' \rightarrow \mu^+ \mu^-$ Decays.

Physical review letters, 124(4):041801 (1, and PUBDB-2021-00400, arXiv:1910.06926. LHCb-PAPER-2019-031. CERN-EP-2019-212.

doi: 10.1103/PhysRevLett.124.041801.

LHCb Collaboration.

Search for CP violation in $X_i^+ \rightarrow pK^-\pi^+$ decays using model-independent techniques.

The European physical journal / C, 80(10):986 (1, and PUBDB-2021-00437, arXiv:2006.03145. CERN-EP-2020-069. LHCb-PAPER-2019-026.
doi: 10.1140/epjc/s10052-020-8365-0.

LHCb Collaboration.

Search for the Rare Decays $B_s^0 \rightarrow e^+e^-$ and $B^0 \rightarrow e^+e^-$.

Physical review letters, 124(21):211802 (1, and PUBDB-2021-00399, arXiv:2003.03999. LHCb-PAPER-2020-001. CERN-EP-2020-023.
doi: 10.1103/PhysRevLett.124.211802.

LHCb Collaboration.

Strong constraints on the $b \rightarrow s\gamma$ photon polarisation from $B^0 \rightarrow K^{*0}e^+e^-$ decays.

Journal of high energy physics, 12(12):81 (1, and PUBDB-2021-00431, arXiv:2010.06011. LHCb-PAPER-2020-020. CERN-EP-2020-176.
doi: 10.1007/JHEP12(2020)081.

LHCb Collaboration.

Study of the $\psi_2(3823)$ and $\chi_{c1}(3872)$ states in $B^+ \rightarrow (J\psi\pi^+\pi^-)K^+$ decays.

Journal of high energy physics, 08(8):123, and PUBDB-2021-00358, arXiv:2005.13422. CERN-EP-2020-071. LHCb-PAPER-2020-009.
doi: 10.1007/JHEP08(2020)123.

J. Li et al.

Gamma-ray heartbeat powered by the microquasar SS 433.

Nature astronomy, 4:1177, and PUBDB-2020-04819.
doi: 10.1038/s41550-020-1164-6.

P. Liendo, Y. Linke and V. Schomerus.

A Lorentzian inversion formula for defect CFT.

Journal of high energy physics, 2008(8):1, and PUBDB-2020-03806, DESY-19-039. arXiv:1903.05222.
doi: 10.1007/JHEP08(2020)163.

A. V. Lipatov, M. A. Malyshev and H. Jung.

On relation between Parton Branching Approach and CCFM evolution.

Physical review / D, 101(3):034022, and PUBDB-2020-00915, arXiv:1910.11224. DESY-19-183. DESY 19-183.
doi: 10.1103/PhysRevD.101.034022.

R.-Y. Liu and H. Yan.

On the unusually large spatial extent of the TeV nebula HESS J1825–137: implication from the energy-dependent morphology.

Monthly notices of the Royal Astronomical Society, 494(2):2618, and PUBDB-2020-05079.
doi: 10.1093/mnras/staa911.

S. Longo et al.

CsI(Tl) pulse shape discrimination with the Belle II electromagnetic calorimeter as a novel method to improve particle identification at electron-positron colliders.

Nuclear instruments & methods in physics research / A, 982:164562, and PUBDB-2021-00498, arXiv:2007.09642.
doi: 10.1016/j.nima.2020.164562.

K. J. Luken et al.

Radio Observations of Supernova Remnant G1.9+0.3.

Monthly notices of the Royal Astronomical Society, 492(2):2606, and PUBDB-2021-00387, arXiv:1912.01771.
doi: 10.1093/mnras/stz3439.

A. Luszczak and H. Kowalski.

Investigation of High Energy Behaviour of HERA Data.

Physics letters / B, 802:135199, and PUBDB-2020-05112, arXiv:1903.09719.
doi: 10.1016/j.physletb.2020.135199.

MAGIC Collaboration.

A search for dark matter in Triangulum II with the MAGIC telescopes.

Physics of the Dark Universe, 28:100529, and PUBDB-2020-01395, arXiv:2003.05260.
doi: 10.1016/j.dark.2020.100529.

MAGIC Collaboration.

Detection of the Geminga pulsar with MAGIC hints at a power-law tail emission beyond 15 GeV.

Astronomy and astrophysics, 643:L14 (1, and PUBDB-2021-00188, arXiv:2011.10412.
doi: 10.1051/0004-6361/202039131.

MAGIC Collaboration.

MAGIC very large zenith angle observations of the Crab Nebula up to 100 TeV.

Astronomy and astrophysics, 635:A158 (1, and PUBDB-2020-04797, arXiv:2001.09566.
doi: 10.1051/0004-6361/201936899.

MAGIC Collaboration.

Study of the variable broadband emission of Markarian 501 during the most extreme Swift X-ray activity.

Astronomy and astrophysics, 637:A86, and PUBDB-2020-02366, arXiv:2001.07729.
doi: 10.1051/0004-6361/201834603.

MAGIC Collaboration.

Studying the nature of the unidentified gamma-ray source HESS J1841–055 with the MAGIC telescopes.

Monthly notices of the Royal Astronomical Society, 497(3):3734, and PUBDB-2020-04788, arXiv:2007.09321.
doi: 10.1093/mnras/staa2135.

MAGIC Collaboration.

Testing two-component models on very-high-energy gamma-ray emitting BL Lac objects.

Astronomy and astrophysics, 640:A132, and PUBDB-2020-03249, arXiv:2006.04493.
doi: 10.1051/0004-6361/202037811.

MAGIC Collaboration.

Unravelling the complex behavior of Mrk 421 with simultaneous X-ray and VHE observations during an extreme flaring activity in April 2013.

The astrophysical journal / Supplement series, 248(2):29, and PUBDB-2020-02368, arXiv:2001.08678.
doi: 10.3847/1538-4365/ab89b5.

MAGIC Collaboration and Armenian Consortium: ICRANet-Armenia at NAS RA, A. Alikhanyan National Laboratory and ESO, Finnish MAGIC Consortium: Finnish Centre of Astronomy with.

Bounds on Lorentz invariance violation from MAGIC observation of GRB 190114C.

Physical review letters, 125(2):1, and PUBDB-2020-02983, arXiv:2001.09728.

doi: 10.1103/PhysRevLett.125.021301.

MAGIC Collaboration and ESO, MAGIC Finnish Consortium: Finnish Centre of Astronomy with.

MAGIC observations of the diffuse γ -ray emission in the vicinity of the Galactic center.

Astronomy and astrophysics, 642:A190, and PUBDB-2020-04802, arXiv:2006.00623.

doi: 10.1051/0004-6361/201936896.

MAGIC Collaboration and FACT Collaboration.

An intermittent extreme BL Lac: MWL study of 1ES 2344+514 in an enhanced state.

Monthly notices of the Royal Astronomical Society, 496(3):3912, and PUBDB-2020-04804, arXiv:2006.06796.

doi: 10.1093/mnras/staa1702.

MAGIC Collaboration and Fermi-LAT Collaboration.

Broadband characterisation of the very intense TeV flares of the blazar 1ES 1959+650 in 2016.

Astronomy and astrophysics, 638:A14, and PUBDB-2020-02510, arXiv:2002.00129.

doi: 10.1051/0004-6361/201935450.

MAGIC Collaboration and Observatory, Finnish MAGIC Consortium: Tuorla and ESO, Finnish Centre of Astronomy with.

Statistics of VHE γ -rays in temporal association with radio giant pulses from the Crab pulsar.

Astronomy and astrophysics, 634:A25, and PUBDB-2020-00671, arXiv:1911.00634.

K. D. Makwana and H. Yan.

Properties of Magnetohydrodynamic Modes in Compressively Driven Plasma Turbulence.

Physical review / X, 10(3):031021, and PUBDB-2020-05076.

doi: 10.1103/PhysRevX.10.031021.

L. Marcotulli et al.

NuSTAR perspective on high-redshift MeV blazars.

The astrophysical journal, 889(2):164, and PUBDB-2021-00238, arXiv:2001.01956.

doi: 10.3847/1538-4357/ab65f5.

P. Marquard et al.

Matching the heavy-quark fields in QCD and HQET at four loops.

Physical review / D, 102(5):054008 (1, and PUBDB-2020-03588, arXiv:2005.14047. DESY-20-092. P3H-20-023. SAGEX-20-14. TTP20-024.

doi: 10.1103/PhysRevD.102.054008.

G. Martí-Devesa et al.

Hints of γ -ray orbital variability from γ^2 Velorum.

Astronomy and astrophysics, 635:A141 (1, and PUBDB-2021-00257, arXiv:2001.02708.

doi: 10.1051/0004-6361/202037462.

O. Matsedonskyi and G. Servant.

High-Temperature Electroweak Symmetry Non-Restoration from New Fermions and Implications for Baryogenesis.

Journal of high energy physics, 2020(9):12 (1, and PUBDB-2020-03822, arXiv:2002.05174. arXiv:2002.05174 DESY-19-207.

doi: 10.1007/JHEP09(2020)012.

A. J. McLeod et al.

A Novel Algorithm for Nested Summation and Hypergeometric Expansions.

Journal of high energy physics, 11(11):122, and PUBDB-2021-00546, arXiv:2005.05612.

doi: 10.1007/JHEP11(2020)122.

I. de Medeiros Varzielas and J. Talbert Jr.

FCNC-free multi-Higgs-doublet models from broken family symmetries.

Physics letters / B, 800:135091, and PUBDB-2019-05052, arXiv:1908.10979. DESY-19-147.

doi: 10.1016/j.physletb.2019.135091.

E. Mestre et al.

The Crab nebula variability at short timescales with the Cherenkov Telescope Array.

Monthly notices of the Royal Astronomical Society, 509(1):337, and PUBDB-2020-04552, arXiv:2011.08586.

doi: 10.1093/mnras/staa3599.

D. M.-A. Meyer, M. Petrov and M. Pohl.

Wind nebulae and supernova remnants of very massive stars.

Monthly notices of the Royal Astronomical Society, 493(3):3548, and PUBDB-2020-04608.

doi: 10.1093/mnras/staa554.

D. M.-A. Meyer et al.

On the ring nebulae around runaway Wolf-Rayet stars.

Monthly notices of the Royal Astronomical Society, 496(3):3906, and PUBDB-2020-04606.

doi: 10.1093/mnras/staa1700.

D. Mirarchi et al.

Reducing Beam-Related Background on Forward Physics Detectors Using Crystal Collimation at the Large Hadron Collider.

Physical review applied, 14(6):064066, and PUBDB-2021-01454.

doi: 10.1103/PhysRevApplied.14.064066.

P. Mitra et al.

Reconstructing air shower parameters with LOFAR using event specific GDAS atmospheres.

Astroparticle physics, 123:102470, and PUBDB-2020-02977, arXiv:2006.02228.

doi: 10.1016/j.astropartphys.2020.102470.

D. Mohler and S. Schaefer.

Remarks on strange-quark simulations with Wilson fermions.

Physical review / D, 102(7):074506 (1, and PUBDB-2020-05163, arXiv:2003.13359. DESY-20-041. MITP/20-010.

doi: 10.1103/PhysRevD.102.074506.

- R. Monroe et al.
Self-triggered radio detection and identification of cosmic air showers with the OVRO-LWA.
Nuclear instruments & methods in physics research / A, 953:163086, and PUBDB-2020-00350, arXiv:1907.10193.
doi: 10.1016/j.nima.2019.163086.
- K. Mori et al.
Multiwavelength Observations of 2HWC J1928+177: Dark Accelerator or New TeV Gamma-Ray Binary?
The astrophysical journal, 897(2):129 (1, and PUBDB-2021-00344, arXiv:2005.12343.
doi: 10.3847/1538-4357/ab9631.
- K. Mulrey et al.
On the cosmic-ray energy scale of the LOFAR radio telescope.
Journal of cosmology and astroparticle physics, 11(11):017, and PUBDB-2021-00140, arXiv:2005.13441.
doi: 10.1088/1475-7516/2020/11/017.
- Z. Nagy and D. E. Soper.
Evolution of parton showers and parton distribution functions.
Physical review / D, 102(1):014025, and PUBDB-2020-03007, arXiv:2002.04125. DESY-20-015.
doi: 10.1103/PhysRevD.102.014025.
- V. Niarchos, C. Papageorgakis and E. Pomoni.
Type-B anomaly matching and the 6D (2,0) theory.
Journal of high energy physics, 2020(4):48, and PUBDB-2020-01569, DESY-19-189.
doi: 10.1007/JHEP04(2020)048.
- F. Nieri and Y. Zenkevich.
Quiver $W_{\epsilon_1, \epsilon_2}$ algebras of 4d $\mathcal{N} = 2$ gauge theories.
Journal of physics / A Mathematical and theoretical, A53(27):275401, and PUBDB-2020-02782, arXiv:1912.09969. DESY-19-233. ITEP-36/19.
doi: 10.1088/1751-8121/ab9275.
- K. Nishikawa et al.
Rapid particle acceleration due to recollimation shocks and turbulent magnetic fields in injected jets with helical magnetic fields.
Monthly notices of the Royal Astronomical Society, 493(2):2652, and PUBDB-2020-04609.
doi: 10.1093/mnras/staa421.
- I. Novikov et al.
Parton Distribution Functions of the Charged Pion Within The xFitter Framework.
Physical review / D, 102(1):014040 (1, and PUBDB-2020-03740, arXiv:2002.02902. DESY-20-013.
doi: 10.1103/PhysRevD.102.014040.
- M. A. Nozdrin et al.
Design of the New Control System for Linac-200.
Physics of particles and nuclei letters, 17(4):600, and PUBDB-2021-00499.
doi: 10.1134/S1547477120040342.
- E. de Oña Wilhelmi et al.
SNR G39.2-0.3, an hadronic cosmic rays accelerator.
Monthly notices of the Royal Astronomical Society, 497(3):3581, and PUBDB-2020-04820, arXiv:2007.04627.
doi: 10.1093/mnras/staa2045.
- D. Pagani, H.-S. Shao and M. Zaro.
RIP Hbb : How other Higgs production modes conspire to kill a rare signal at the LHC.
Journal of high energy physics, 11:036, and PUBDB-2020-04598, arXiv:2005.10277. DESY-20-089. TIF-UNIMI-2020-16.
doi: 10.1007/JHEP11(2020)036.
- D. Pagani, I. Tsirikos and E. Vryonidou.
NLO QCD+EW predictions for tHj and tZj production at the LHC.
Journal of high energy physics, 08(8):082, and PUBDB-2021-00523, arXiv:2006.10086. DESY-20-101. LU-TP 20-33. CERN-TH-2020-090.
doi: 10.1007/JHEP08(2020)082.
- V. S. Paliya et al.
The First Gamma-ray Emitting BL Lacertae Object at the Cosmic Dawn.
The astrophysical journal, 903(1):L8, and PUBDB-2021-00177, arXiv:2010.12907.
doi: 10.3847/2041-8213/abbc06.
- V. S. Paliya et al.
TXS 2116-077: A Gamma-ray Emitting Relativistic Jet Hosted in a Galaxy Merger.
The astrophysical journal, 892(2):133 (1, and PUBDB-2021-00390, arXiv:2004.02703.
doi: 10.3847/1538-4357/ab754f.
- V. S. Paliya et al.
Blazars at the Cosmic Dawn.
The astrophysical journal, 897(2):177, and PUBDB-2020-02980, arXiv:2006.01857.
doi: 10.3847/1538-4357/ab9c1a.
- A. Palladino, M. Spurio and F. Vissani.
Neutrino Telescopes and High-Energy Cosmic Neutrinos.
Universe, 6(2):30, and PUBDB-2020-00934.
doi: 10.3390/universe6020030.
- A. Palladino et al.
Can astrophysical neutrinos trace the origin of the detected ultra-high energy cosmic rays?
Monthly notices of the Royal Astronomical Society, 494(3):4255, and PUBDB-2020-03348, DESY-19-208. arXiv:1911.05756.
doi: 10.1093/mnras/staa1003.
- P. Pani et al.
Characterization of monolithic GAGG:Ce coupled to both PMT and SiPM array for gamma imaging in Nuclear Medicine.
Journal of Instrumentation, 15(05):C05011 (1, and PUBDB-2021-00251.
doi: 10.1088/1748-0221/15/05/C05011.
- A. Papitto et al.
The INTEGRAL view of the pulsating hard X-ray sky: from accreting and transitional millisecond pulsars to rotation-powered pulsars and magnetars.
New astronomy reviews, 91:101544, and PUBDB-2021-00137, arXiv:2012.01346.
doi: 10.1016/j.newar.2020.101544.

- R. D. Parsons and S. Ohm.
Background Rejection in Atmospheric Cherenkov Telescopes using Recurrent Convolutional Neural Networks.
The European physical journal / C Particles and fields C, C80(5):363, and PUBDB-2020-02146, arXiv:1910.09435.
 doi: 10.1140/epjc/s10052-020-7953-3.
- F. G. Pedro and A. Westphal.
Flattened axion monodromy beyond two derivatives.
Physical review / D, 101(4):043501, and PUBDB-2020-00740, DESY-19-160.
 doi: 10.1103/PhysRevD.101.043501.
- P. Peñil et al.
Systematic Search for γ -Ray Periodicity in Active Galactic Nuclei Detected by the Fermi Large Area Telescope.
The astrophysical journal, 896(2):134 (1, and PUBDB-2021-00185, arXiv:2002.00805.
 doi: 10.3847/1538-4357/ab910d.
- M. Pohl, M. Hoshino and J. Niemiec.
PIC simulation methods for cosmic radiation and plasma instabilities.
Progress in particle and nuclear physics, 111:103751, and PUBDB-2020-04610, DESY-19-230. arXiv:1912.02673.
 doi: 10.1016/j.pnpnp.2019.103751.
- J. H. Pold and A. D. Spector.
Demonstration of a length control system for ALPS II with a high finesse 9.2 m cavity.
EPJ Techniques and Instrumentation, 7:1, and PUBDB-2020-04523, arXiv:1710.06634. DESY 17-149.
 doi: 10.1140/epjti/s40485-020-0054-8.
- E. Pomoni.
4D $\mathcal{N} = 2$ SCFTs and spin chains.
Journal of physics / A Mathematical and theoretical, A53(28):283005, and PUBDB-2020-02781, arXiv:1912.00870. DESY-19-212.
 doi: 10.1088/1751-8121/ab7f66.
- M. Postma and J. M. v. d. Vis.
Source terms for electroweak baryogenesis in the vev-insertion approximation beyond leading order.
Journal of high energy physics, 2020(2):90, and PUBDB-2020-01349, DESY-19-182.
 doi: 10.1007/JHEP02(2020)090.
- PROSA Collaboration.
Improved constraints on parton distributions using LHCb, ALICE and HERA heavy-flavour measurements and implications for the predictions for prompt atmospheric-neutrino fluxes.
Journal of high energy physics, 2004(4):118, and PUBDB-2020-01631, arXiv:1911.13164. DESY-19-211.
 doi: 10.1007/JHEP04(2020)118.
- M. Rajagopal et al.
nuSTAR Observations and multi-wavelength modeling of the high-redshift BL Lac Object 4FGL J2146.5-1344.
The astrophysical journal, 889(2):102 (1, and PUBDB-2021-00250, arXiv:2001.05020.
 doi: 10.3847/1538-4357/ab6226.
- F. Riehn et al.
Hadronic interaction model sibyll 2.3d and extensive air showers.
Physical review / D, 102(6):063002, and PUBDB-2020-03247, arXiv:1912.03300.
 doi: 10.1103/PhysRevD.102.063002.
- C. Righi et al.
EeV Astrophysical neutrinos from FSRQs?
Astronomy and astrophysics, 642:A92 (1, and PUBDB-2020-03929, arXiv:2003.08701. arXiv:2003.08701.
 doi: 10.1051/0004-6361/202038301.
- T. Robens, T. Stefaniak and J. Wittbrodt.
Two-real-scalar-singlet extension of the SM: LHC phenomenology and benchmark scenarios.
The European physical journal / C Particles and fields C, 80(2):151, and PUBDB-2020-01252, DESY-19-142.
 doi: 10.1140/epjc/s10052-020-7655-x.
- D. Rodgers-Lee et al.
The Galactic cosmic ray intensity at the evolving Earth and young exoplanets.
Monthly notices of the Royal Astronomical Society, 499(2):2124, and PUBDB-2021-00386.
 doi: 10.1093/mnras/staa2737.
- J. Rong and J. Zhu.
On the ϕ^3 theory above six dimensions.
Journal of high energy physics, 04(4):151, and PUBDB-2020-04626, arXiv:2001.10864.
 doi: 10.1007/JHEP04(2020)151.
- M. Rongen, R. C. Bay and S. Blot.
Observation of an optical anisotropy in the deep glacial ice at the geographic South Pole using a laser dust logger.
The Cryosphere, 14(8):2537, and PUBDB-2021-00255.
 doi: 10.5194/tc-14-2537-2020.
- A. Rudolph et al.
Impact of the collision model on the multimessenger emission from gamma-ray burst internal shocks.
The astrophysical journal / Supplement series, 893:72, and PUBDB-2020-01586, arXiv:1907.10633. DESY-20-068.
 doi: 10.3847/1538-4357/ab7ea7.
- F. Rühr et al.
Testbeam studies of barrel and end-cap modules for the ATLAS ITk strip detector before and after irradiation.
Nuclear instruments & methods in physics research / A, 979:164430 (1, and PUBDB-2021-00252.
 doi: 10.1016/j.nima.2020.164430.
- I. Sadeh.
Data-driven Detection of Multimessenger Transients.
The astrophysical journal, 894(2):L25 (1, and PUBDB-2020-04557.
 doi: 10.3847/2041-8213/ab8b5f.
- M. Sakamoto, M. Takeuchi and Y. Tatsuta.
Zero-mode counting formula and zeros in orbifold compactifications.
Physical review / D, 102(2):025008, and PUBDB-2020-04595, KOBE-TH-20-03. DESY-20-063. arXiv:2004.05570.
 doi: 10.1103/PhysRevD.102.025008.

K. S. Sasikumar et al.

The ILC as a natural SUSY discovery machine and precision microscope: From light higgsinos to tests of unification.

1831210. The European Physical Society - High Energy Physics Conference 2019, Ghent, Belgium (Belgium), 10 Jul 2019 - 17 Jul 2019.

Proceedings of Science / International School for Advanced Studies, vol. (EPS-HEP2019):596, and PUBDB-2021-00883. SISSA, Trieste.

doi: 10.22323/1.364.0596.

R. Sato.

Simple gradient flow equation for the bounce solution.

Physical review / D, 101(1):016012, and PUBDB-2020-00617, DESY-19-122.

doi: 10.1103/PhysRevD.101.016012.

C. Schwanenberger and O. Fischer.

Beyond the Standard Model physics at the LHeC and the FCC-he.

1831163. European Physical Society Conference on High Energy Physics, Ghent (Belgium), 10 Jul 2019 - 17 Jul 2019.

Proceedings of Science / International School for Advanced Studies, vol. (EPS-HEP2019):563, and PUBDB-2020-05252. SISSA, Trieste.

doi: 10.22323/1.364.0563.

A. Sokolov.

Generic energy transport solutions to the solar abundance problem—a hint of new physics.

Journal of cosmology and astroparticle physics, 03(03):013, and PUBDB-2021-00625, arXiv:1907.06928.

doi: 10.1088/1475-7516/2020/03/013.

M. T. Soumagnac et al.

Early Ultraviolet Observations of Type II In Supernovae Constrain the Asphericity of Their Circumstellar Material.

The astrophysical journal, 899(1):51 (1, and PUBDB-2021-00258, arXiv:2001.05518.

doi: 10.3847/1538-4357/ab94be.

D. T. Strauss et al.

The mini-neutron monitor: a new approach in neutron monitor design.

Journal of space weather and space climate, 10:39 (1, and PUBDB-2021-00191.

doi: 10.1051/swsc/2020038.

T. Sykora and ATLAS Collaboration.

ATLAS Forward Proton Time-of-Flight Detector: LHC Run2 performance and experiences.

10. International Conference on Instrumentation for Colliding Beam Physics, Novosibirsk (Russian Federation), 24 Feb 2020 - 28 Feb 2020.

Journal of Instrumentation, vol. 1510:C10004 (1, and PUBDB-2021-00538, ATL-FWD-PROC-2020-001.

Inst. of Physics, London.

doi: 10.1088/1748-0221/15/10/C10004.

F. Tenchini.

Performance of High-Level Reconstruction at Belle II.

Proceedings of Science / International School for Advanced Studies, 377:1, and PUBDB-2020-04395.

doi: 10.22323/1.377.0054.

The Nearby Supernova Factory.

SUGAR: An improved empirical model of Type Ia Supernovae based on spectral features.

Astronomy and astrophysics, 636:A46, and PUBDB-2020-01726, arXiv:1909.11239.

doi: 10.1051/0004-6361/201834954.

T. N. G. Trinh et al.

Determining Electric Fields in Thunderclouds With the Radiotelescope LOFAR.

Journal of geophysical research / D, 125(8):20, and PUBDB-2021-00236.

doi: 10.1029/2019JD031433.

J. Valverde et al.

A Decade of Multiwavelength Observations of the TeV Blazar 1ES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical–Gamma-Ray Flux Increase.

The astrophysical journal / 1 Part 1, 891(2):170, and PUBDB-2020-01405, arXiv:2002.04119.

doi: 10.3847/1538-4357/ab765d.

VERITAS Collaboration.

VERITAS Detection of LS 5039 and HESS J1825-137.

Astroparticle physics, 117:102403, and PUBDB-2020-00185, arXiv:2001.03522.

doi: 10.1016/j.astropartphys.2019.102403.

J. van de Vis et al.

Time-Scales for Nonlinear Processes in Preheating after Multi-field Inflation with Nonminimal Couplings.

Physical review / D, 102(4):043528 (1, and PUBDB-2020-03320, arXiv:2005.00433. DESY-20-076. Nikhef 2020-014.

MIT-CTP/5202.

doi: 10.1103/PhysRevD.102.043528.

R. Voivodic, H. Rubira and M. Lima.

The Halo Void (Dust) Model of Large Scale Structure.

Journal of cosmology and astroparticle physics, 10(10):033, and PUBDB-2021-01513, arXiv:2003.06411. DESY-20-040.

doi: 10.1088/1475-7516/2020/10/033.

K. Wang et al.

Limiting Superluminal Neutrino Velocity and Lorentz Invariance Violation by Neutrino Emission from the Blazar TXS 0506+056.

Physical review / D, D102(6):063027 (1, and PUBDB-2020-03697, arXiv:2009.05201.

doi: 10.1103/PhysRevD.102.063027.

Y. M. Welling.

Simple, exact model of quasisingle field inflation.

Physical review / D, 101(6):063535, and PUBDB-2020-01338, DESY-19-120.

doi: 10.1103/PhysRevD.101.063535.

R. White et al.

Gamma-ray and X-ray constraints on non-thermal processes in η Carinae.

Astronomy and astrophysics, 635:A144, and PUBDB-2020-04664, arXiv:1911.01079.

doi: 10.1051/0004-6361/201937031.

A. Wilhelm et al.

Stochastic re-acceleration and magnetic-field damping in Tycho's supernova remnant.

Astronomy and astrophysics, 639:A124, and PUBDB-2020-04607, arXiv:2006.04832.

doi: 10.1051/0004-6361/201936079.

Y. C. Yap.

Recent observation and measurements of diboson processes from the ATLAS experiment.

Modern physics letters / A, 35(28):2030013, and PUBDB-2021-00346, arXiv:2006.08285.

doi: 10.1142/S021773232030013X.

N. Zerf et al.

Critical properties of the valence-bond-solid transition in lattice quantum electrodynamics.

Physical review / D, 101(9):094505, and PUBDB-2020-02567, arXiv:2003.09226. DESY-20-045. HU-EP-20/05. LTH 1231.

doi: 10.1103/PhysRevD.101.094505.

ZEUS Collaboration.

Study of proton parton distribution functions at high x using ZEUS data.

Physical review / D, D101(11):112009, and PUBDB-2020-02877, arXiv:2003.08742. DESY-20-048.

doi: 10.1103/PhysRevD.101.112009.

ZEUS Collaboration.

Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA.

Journal of high energy physics, 2004(4):70, and PUBDB-2020-01625, arXiv:1912.07431. DESY-19-174.

doi: 10.1007/JHEP04(2020)070.

H.-M. Zhang et al.

Discovery of a spatially extended GeV source in the vicinity of the TeV halo candidate 2HWC J1912+099: a TeV halo or supernova remnant ?

The astrophysical journal, 889(1):1, and PUBDB-2021-00260, arXiv:1909.13185.

doi: 10.3847/1538-4357/ab5af6.

H. Zhang et al.

Discovery of Ground-state Absorption Line Polarization and Sub-Gauss Magnetic Field in the Post-AGB Binary System 89 Her.

The astrophysical journal / 2, 902(1):L7, and PUBDB-2020-04073.

doi: 10.3847/2041-8213/abb8e1.

H. Zhang et al.

Identification of plasma modes in Galactic turbulence with synchrotron polarization.

Nature astronomy, 4(10):1001, and PUBDB-2020-05077.

doi: 10.1038/s41550-020-1093-4.

S. J. Zhu et al.

Characterizing the continuous gravitational-wave signal from boson clouds around Galactic isolated black holes.

Physical review / D, 102(6):063020, and PUBDB-2020-03980, arXiv:2003.03359.

doi: 10.1103/PhysRevD.102.063020.

P. A. Zyla et al.

Review of Particle Physics.

Progress of theoretical and experimental physics, 2020(8):083C01, and PUBDB-2020-03047.

doi: 10.1093/ptep/ptaa104.

Dissertationen

J.-H. Arling.

Detection and Identification of Electrons and Photons - Applications in the ATLAS Experiment, for the ATLAS ITk Detector and at the DESY II Test Beam.

Technical University of Dortmund, Hamburg, 2020.

F. Braren.

Measurement and Interpretation of Higgs Boson Differential Cross Sections in the Diphoton Decay Channel and Measurement of the Photon Identification Efficiency in the ATLAS Experiment.

University of Hamburg, 2020.

J. P. Carstensen.

Integrability in $N = 1$ Gauge Theories.

Universität Hamburg, Hamburg, 2020.

S. Consuegra Rodriguez.

Search for light bosons in the final state with muons and tau leptons with CMS Run II data.

Universität Hamburg, Hamburg, 2020.

V. Danilov.

The measurement of $W^\pm$ boson charge asymmetry at $\sqrt{s} = 13$ TeV with the CMS detector using the 2015 data set and a global QCD analysis on this asymmetry.

University of Hamburg, 2020.

M. Defranchis.

First measurement of the running of the top quark mass.

Universität Hamburg, Hamburg, 2020.

D. Dominguez Damiani.

Cross Section measurements of $t\bar{t}$ pair production in the boosted regime in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS experiment at the Large Hadron Collider.

Universität Hamburg, Hamburg, 2020.

G. P. Gallardo Romero.

Search for axion-like particles through their effects on the transparency of the universe with the fermi large area telescope.

Humboldt-Universität zu Berlin, 2020.

Y. Gouttenoire.

Heavy Dark Matter, Models and Methods of Detection beyond the Standard Paradigm.

University of Hamburg, 2020.

J. Heinze.

Ultra-high-energy cosmic-ray nuclei and neutrinos in models of gamma-ray bursts and extragalactic propagation.

Humboldt University, 2020.

- M. Hufnagel.
Primordial Nucleosynthesis in the Presence of MeV-scale Dark Sectors.
Universität Hamburg, Hamburg, 2020.
- N. Kelley-Hoskins.
A Search for Extended Gamma-Ray Emission from the Galactic Center with VERITAS.
Humboldt-Universität zu Berlin, 2020.
- V. Kitali.
Search for invisible decays of the Higgs boson produced in vector-boson fusion in final states with jets and large missing transverse energy with the ATLAS detector.
University of Hamburg, 2020.
- J. Knolle.
Measuring luminosity and the $t\bar{t}Z$ production cross section with the CMS experiment.
Universität Hamburg, Hamburg, 2020.
- J. Lange.
Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel.
Universität Hamburg, Hamburg, 2020.
- X. Lou.
Search for Dark Matter Produced in Association with Heavy Standard Model Particles at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC.
University of Hamburg, 2020.
- J. Michel.
Factorization and Resummation for Precision Physics at the LHC.
University of Hamburg, 2020.
- D. Perez Adan.
Search for Light Bosons in Exotic Decays of the 125 GeV Higgs Boson.
Universität Hamburg, Hamburg, 2020.
- D. Rauch.
Aspects of Rare Production and Decay Processes of the Higgs Boson.
University of Hamburg, 2020.
- A. Reimers.
Searching for Heavy Particles Coupled to Top Quarks with CMS.
Universität Hamburg, Hamburg, 2020.
- E. Rossi.
Characterization of Silicon Modules and Sensors for the ATLAS Inner Tracker Strip Detector.
Universität Hamburg, Hamburg, 2020.
- K. S. Sasikumar.
Photon-Photon processes at the International Linear Collider and BSM signatures with small mass differences.
Universität Hamburg, Hamburg, 2020.
- J. Schütte-Engel.
Axion direct detection in particle and condensed matter physics.
Universität Hamburg, Hamburg, 2020.
- A. Singh.
Search for supersymmetric particles in gluino-gluino pair production events at CMS.
Universität Hamburg, Hamburg, 2020.
- R. C. G. Smith.
Digital Control Systems in the Regeneration Cavity of ALPS IIa.
Leibniz Universität Hannover, 2020.
- I. Sobolev.
Precise predictions for Higgs physics in supersymmetric models.
Universität Hamburg, Hamburg, 2020.
- A. Vagnerini.
Search for Higgs bosons in the final state with b-quarks in the semi-leptonic channel with the CMS 2017 data.
Universität Hamburg, Hamburg, 2020.

2 | POF3-620 - Von Materie zu Materialien und Leben

ISI oder SCOPUS

A. Ahad et al.

Magnetic correlations in subsystems of the misfit $[Ca_2CoO_3]_{0.62}[CoO_2]$ cobaltate.

Physical review / B, 102(9):094428 (1, and PUBDB-2020-04322.

doi: 10.1103/PhysRevB.102.094428.

A. Ahad et al.

Origin of the high Seebeck coefficient of the misfit $[Ca_2CoO_3]_{0.62}[CoO_2]$ cobaltate from site-specific valency and spin-state determinations.

Physical review / B, 101(22):220202, and PUBDB-2020-02999.

doi: 10.1103/PhysRevB.101.220202.

A. Al Hassan et al.

Beam damage of single semiconductor nanowires during X-ray nanobeam diffraction experiments.

Journal of synchrotron radiation, 27(5):1200, and PUBDB-2020-03149.

doi: 10.1107/S1600577520009789.

S. Albertin et al.

Surface optical reflectance combined with x-ray techniques during gas-surface interactions.

Journal of physics / D, 53(22):224001, and PUBDB-2021-00469, arXiv:2001.03062.

doi: 10.1088/1361-6463/ab77df.

A. AlHassan et al.

Spatially-resolved luminescence and crystal structure of single core-shell nanowires measured in the as-grown geometry.

Nanotechnology, 31(21):1, and PUBDB-2020-03636.

doi: 10.1088/1361-6528/ab7590.

R. Alonso-Mori et al.

Femtosecond electronic structure response to high intensity XFEL pulses probed by iron X-ray emission spectroscopy.

Scientific reports, 10(1):16837 (1, and PUBDB-2020-04865.

doi: 10.1038/s41598-020-74003-1.

M. Amin and J. Küpper.

Variations in Proteins Dielectric Constants.

ChemistryOpen, 9(6):691, and PUBDB-2020-02298.

doi: 10.1002/open.202000108.

M. Amin, M. K. Sorour and A. Kasry.

Comparing the Binding Interactions in the Receptor Binding Domains of SARS-CoV-2 and SARS-CoV.

The journal of physical chemistry letters, 11:4897–4900, and PUBDB-2020-02276.

doi: 10.1021/acs.jpclett.0c01064.

A. Amorese et al.

From antiferromagnetic and hidden order to Pauli paramagnetism in UM_2Si_2 compounds with 5f electron duality.

Proceedings of the National Academy of Sciences of the United States of America, 117(48):30220, and PUBDB-2020-04831.

doi: 10.1073/pnas.2005701117.

H. Andaleeb et al.

High-resolution crystal structure and biochemical characterization of a GH11 endoxylanase from *Nectria haematococca*.

Scientific reports, 10(1):15658 (1, and PUBDB-2020-03943.

doi: 10.1038/s41598-020-72644-w.

E. Appi et al.

A synchronized VUV light source based on high-order harmonic generation at FLASH.

Scientific reports, 10(1):6867, and PUBDB-2020-02132.

doi: 10.1038/s41598-020-63019-2.

G. Aprilis et al.

The Effect of Pulsed Laser Heating on the Stability of Ferroporphyrin at High Pressures.

Minerals, 10(6):542, and PUBDB-2021-00555.

doi: 10.3390/min10060542.

G. Araizi-Kanoutas et al.

Co valence transformation in isopolar $LaCoO_3/LaTiO_3$ perovskite heterostructures via interfacial engineering.

Physical review materials, 4(2):026001, and PUBDB-2020-05072.

doi: 10.1103/PhysRevMaterials.4.026001.

K. J. Ardila-Fierro et al.

Direct Visualization of a Mechanochemically Induced Molecular Rearrangement.

Angewandte Chemie / International edition International edition, 59(32):13458, and PUBDB-2020-02175.

doi: 10.1002/anie.201914921.

- B. Arndt et al.
Order-disorder phase transition of the subsurface cation vacancy reconstruction on Fe_3O_4 (001).
Physical chemistry, chemical physics, 22(16):8336, and PUBDB-2020-01320.
doi: 10.1039/D0CP00690D.
- C. Arnold et al.
Molecular electronic decoherence following attosecond photoionisation.
Journal of physics / B Atomic, molecular and optical physics, 53(16):164006, and PUBDB-2020-02569.
doi: 10.1088/1361-6455/ab9658.
- D. Assalauova et al.
An advanced workflow for single-particle imaging with the limited data at an X-ray free-electron laser.
IUCrJ, 7(6):1102, and PUBDB-2020-04143.
doi: 10.1107/S2052252520012798.
- M. P. Asta et al.
Nanoscale Ion Dynamics Control on Amorphous Calcium Carbonate Crystallization: Precise Control of Calcite Crystal Sizes.
The journal of physical chemistry / C, 124(46):25645, and PUBDB-2021-00567.
doi: 10.1021/acs.jpcc.0c08670.
- K. Bagschik et al.
Direct 2D spatial-coherence determination using the Fourier-analysis method: Multi-parameter characterization of the P04 beamline at PETRA III.
Optics express, 28(5):7282, and PUBDB-2020-00759.
doi: 10.1364/OE.382608.
- K. Bagschik et al.
Enabling time-resolved 2D spatial-coherence measurements using the Fourier-analysis method with an integrated curved-grating beam monitor.
Optics letters, 45(19):5591, and PUBDB-2020-03407.
doi: 10.1364/OL.402264.
- M. Balcerzak et al.
Effect of Cr on the hydrogen storage and electronic properties of BCC alloys: Experimental and first-principles study.
International journal of hydrogen energy, 45(53):28996, and PUBDB-2020-03647.
doi: 10.1016/j.ijhydene.2020.07.186.
- P. Balla et al.
Postcompression of picosecond pulses into the few-cycle regime.
Optics letters, 45(9):2572, and PUBDB-2020-00712.
doi: 10.1364/OL.388665.
- S. Bapari et al.
A multi-scale deformation analysis for a particulate composite at the rigidity threshold.
Composites science and technology, 191:108063 (1, and PUBDB-2020-05337.
doi: 10.1016/j.compscitech.2020.108063.
- B. Bauerhenne et al.
Self-Learning Method for Construction of Analytical Interatomic Potentials to Describe Laser-Excited Materials.
Physical review letters, 124(8):085501, and PUBDB-2020-00902.
doi: 10.1103/PhysRevLett.124.085501.
- J. Bednarcik et al.
In situ XRD Study of Rapid Crystallization of Metallic Glasses Using Novel Experimental Setup for Flash-Annealing.
Acta physica Polonica / A, 137(5):852, and PUBDB-2021-00227.
doi: 10.12693/APhysPolA.137.852.
- A. Benediktovitch et al.
Amplified spontaneous emission in the extreme ultraviolet by expanding xenon clusters.
Physical review / A covering atomic, molecular, and optical physics and quantum information, 101(6):063412, and PUBDB-2020-02451.
doi: 10.1103/PhysRevA.101.063412.
- M. Berlinghof et al.
Crystal-structure of active layers of small molecule organic photovoltaics before and after solvent vapor annealing.
Zeitschrift für Kristallographie / Crystalline materials, 235(1-2):15, and PUBDB-2020-00624.
doi: 10.1515/zkri-2019-0055.
- D. Bessas et al.
On a hyperfine interaction in ϵ -Fe.
Hyperfine interactions, 241(1):1, and PUBDB-2020-00887.
doi: 10.1007/s10751-019-1679-3.
- D. Bessas et al.
Revealing the hidden hyperfine interactions in ϵ -iron.
Physical review / B, 101(3):035112, and PUBDB-2020-00888.
doi: 10.1103/PhysRevB.101.035112.
- S. Bette et al.
Crystal Structure, Polymorphism, and Anisotropic Thermal Expansion of α - $Ca(CH_3COO)_2$.
Crystal growth & design, 20(8):5346, and PUBDB-2020-03681.
doi: 10.1021/acs.cgd.0c00563.
- S. Bhat et al.
Discovery of Ternary Silicon Titanium Nitride with Spinel-Type Structure.
Scientific reports, 10(1):7372, and PUBDB-2020-01228.
doi: 10.1038/s41598-020-64101-5.
- S. Bhat et al.
Frontispiece: A Novel HighPressure Tin Oxynitride Sn_2N_2O .
Chemistry - a European journal, 26(10):2187, and PUBDB-2020-05055.
doi: 10.1002/chem.202081063.
- X. Bian et al.
Signature of local stress states in the deformation behavior of metallic glasses.
NPG Asia Materials, 12(1):1, and PUBDB-2020-03679.
doi: 10.1038/s41427-020-00241-4.

N. Biedermann et al.

Equation of state and high-pressure phase behaviour of SrCO_3 .
European journal of mineralogy, 32(6):575, and PUBDB-2020-04317.

doi: 10.5194/ejm-32-575-2020.

T. A. Bird et al.

Anharmonicity and scissoring modes in the negative thermal expansion materials ScF_3 and CaZrF_6 .

Physical review / B covering condensed matter and materials physics, 101(6):064306, and PUBDB-2020-02619.

doi: 10.1103/PhysRevB.101.064306.

S. A. Bobkov et al.

Advances in Modern Information Technologies for Data Analysis in CRYO-EM and XFEL Experiments.

Crystallography reports, 65(6):1081, and PUBDB-2021-01424.

doi: 10.1134/S1063774520060085.

K. W. Bossers et al.

Correlated X-ray Ptychography and Fluorescence Nanotomography on the Fragmentation Behavior of an Individual Catalyst Particle during the Early Stages of Olefin Polymerization.

Journal of the American Chemical Society, 142(8):3691, and PUBDB-2020-00922.

doi: 10.1021/jacs.9b13485.

C. J. Brett et al.

Revealing structural evolution occurring from photo-initiated polymer network formation.

Communications chemistry, 3(1):88, and PUBDB-2020-04456.

doi: 10.1038/s42004-020-0335-9.

E. Breynaert et al.

Water as a tuneable solvent: a perspective.

Chemical Society reviews, 49(9):2557, and PUBDB-2020-01795.

doi: 10.1039/C9CS00545E.

M. Brinker et al.

Giant electrochemical actuation in a nanoporous silicon-polypyrrole hybrid material.

Science advances, 6(40):1, and PUBDB-2020-03648.

doi: 10.1126/sciadv.aba1483.

S. Britvin et al.

Discovery of terrestrial allabogdanite (Fe, Ni) $_2\text{P}$, and the effect of Ni and Mo substitution on the barringerite-allabogdanite high-pressure transition.

American mineralogist, 105:1, and PUBDB-2020-03569.

doi: 10.2138/am-2021-7621.

M. Broseghini et al.

Numerical and experimental investigations on new jar designs for high efficiency planetary ball milling.

Advanced powder technology, 31(7):2641, and PUBDB-2020-04860.

doi: 10.1016/j.appt.2020.04.027.

R. Bückner et al.

Serial protein crystallography in an electron microscope.

Nature Communications, 11(1):996, and PUBDB-2020-00822.

doi: 10.1038/s41467-020-14793-0.

K. Bühlmann et al.

Compact setup for spin-, time-, and angle-resolved photoemission spectroscopy.

Review of scientific instruments, 91(6):063001, and PUBDB-2021-00144.

doi: 10.1063/5.0004861.

A.-L. Bulin et al.

Radiation Dose-Enhancement Is a Potent Radiotherapeutic Effect of Rare-Earth Composite Nanoscrintillators in Preclinical Models of Glioblastoma.

Advanced science, xx:2001675 (1, and PUBDB-2020-03390.

doi: 10.1002/adv.202001675.

T. Burian et al.

Subthreshold Erosion of an Organic Polymer Induced by Multiple Shots of an X-Ray Free-Electron Laser.

Physical review applied, 14(3):034057, and PUBDB-2021-00604.

doi: 10.1103/PhysRevApplied.14.034057.

P. Busse et al.

Probing the Surface of $\text{La}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ in Water Vapor by In Situ Photon-In / Photon-Out Spectroscopy.

The journal of physical chemistry / C C, Nanomaterials and interfaces, 124:7893, and PUBDB-2020-01178.

doi: 10.1021/acs.jpcc.0c00840.

M. Bykov et al.

Dinitrogen as a Universal Electron Acceptor in Solid-State Chemistry: An Example of Uncommon Metallic Compounds $\text{Na}_3(\text{N}_2)_4$ and NaN_2 .

Inorganic chemistry, 59:14819, and PUBDB-2020-03763.

doi: 10.1021/acs.inorgchem.0c01863.

M. Bykov et al.

HighPressure Synthesis of Metal-Inorganic Frameworks $\text{Hf}_4\text{N}_2\text{O} \cdot \text{N}_2$, $\text{WN}_8 \cdot \text{N}_2$, and $\text{Os}_5\text{N}_{28} \cdot 3\text{N}_2$ with Polymeric Nitrogen Linkers.

Angewandte Chemie / International edition, 59(26):10321, and PUBDB-2021-00175.

doi: 10.1002/anie.202002487.

C. Coleman et al.

A Perspective on Molecular Structure and Bond-Breaking in Radiation Damage in Serial Femtosecond Crystallography.

Crystals, 10(7):585, and PUBDB-2021-00482.

doi: 10.3390/cryst10070585.

A. Campargue et al.

Detection of electric-quadrupole transitions in water vapour near 5.4 and 2.5 μm .

Physical chemistry, chemical physics, 22:12476, and PUBDB-2020-01821.

doi: 10.1039/D0CP01667E.

- J. Candanedo et al.
Dynamics of rare gas solids irradiated by electron beams.
The journal of chemical physics, 152(14):144303 (1, and PUBDB-2021-00460.
doi: 10.1063/1.5134801.
- H. Cao et al.
Conversion of magnesium waste into a complex magnesium hydride system: $Mg(NH_2)_2-LiH$.
Sustainable energy & fuels, 4(4):1915, and PUBDB-2020-05065.
doi: 10.1039/C9SE01284B.
- Q. Cao, F. Kärtner and G. Chang.
Towards high power longwave mid-IR frequency combs: power scalability of high repetition-rate difference-frequency generation.
Optics express, Optics Express(2):1369, and PUBDB-2020-00333.
doi: 10.1364/OE.28.001369.
- W. Cao et al.
Self-Assembly of Large Magnetic Nanoparticles in Ultrahigh Molecular Weight Linear Diblock Copolymer Films.
ACS applied materials & interfaces, 12(6):7557, and PUBDB-2020-04460.
doi: 10.1021/acsami.9b20905.
- F. B. Carneiro et al.
Unveiling charge density wave quantum phase transitions by x-ray diffraction.
Physical review / B, 101(19):195135 (1, and PUBDB-2020-04327.
doi: 10.1103/PhysRevB.101.195135.
- A. Castellví et al.
Improving data quality and expanding BioSAXS experiments to low-molecular-weight and low-concentration protein samples.
Acta crystallographica / Section D, 76(10):971, and PUBDB-2021-00295.
doi: 10.1107/S2059798320010700.
- L. G. Cenchá et al.
Precursor Film Spreading during Liquid Imbibition in Nanoporous Photonic Crystals.
Physical review letters, 125(23):234502, and PUBDB-2021-01452.
doi: 10.1103/PhysRevLett.125.234502.
- A. Chabloz et al.
Salmonella-based platform for efficient delivery of functional binding proteins to the cytosol.
Communications biology, 3(1):342, and PUBDB-2021-00539.
doi: 10.1038/s42003-020-1072-4.
- H. N. Chapman and S. Bajt.
A ray-trace analysis of x-ray multilayer Laue lenses for nanometer focusing.
Journal of optics, 22(11):115610 (1, and PUBDB-2020-04027, arXiv:2006.00297.
doi: 10.1088/2040-8986/abb9c2.
- S. Chariton et al.
The crystal structures of Fe-bearing $MgCO_3$ sp^2 - and sp^3 -carbonates at 98 GPa from single-crystal X-ray diffraction using synchrotron radiation.
Acta crystallographica / Section E, 76(5):715, and PUBDB-2021-00595.
doi: 10.1107/S2056989020005411.
- B. Chattopadhyay et al.
 $4f$ spin driven ferroelectric-ferromagnetic multiferroicity in $PrMn_2O_5$ under a magnetic field.
Physical review / B, 102(9):094408, and PUBDB-2021-00514.
doi: 10.1103/PhysRevB.102.094408.
- S. Chaturvedi et al.
Unusual magnetic ordering transitions in nanoscale biphasic $LuFeO_3$: the role of the ortho-hexa phase ratio and the local structure.
Journal of materials chemistry / C, 8(47):17000, and PUBDB-2021-00160.
doi: 10.1039/D0TC02991B.
- S.-G. Chen et al.
Photon Momentum Transfer in Single-Photon Double Ionization of Helium.
Physical review letters, 124(4):043201, and PUBDB-2020-00622.
doi: 10.1103/PhysRevLett.124.043201.
- H. Chen et al.
Possible H_2O storage in the crystal structure of $CaSiO_3$ perovskite.
Physics of the earth and planetary interiors, 299:106412, and PUBDB-2020-00211.
doi: 10.1016/j.pepi.2019.106412.
- K. Chen et al.
Observation of compact ferrimagnetic skyrmions in $DyCo_3$ film.
Nanoscale, 12(35):18137, and PUBDB-2020-03519.
doi: 10.1039/D0NR02947E.
- W. Chen et al.
Colloidal PbS quantum dot stacking kinetics during deposition via printing.
Nanoscale horizons, 5(5):880, and PUBDB-2020-04450.
doi: 10.1039/D0NH00008F.
- W. Chen et al.
In situ Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid.
ACS applied materials & interfaces, 12(41):46942, and PUBDB-2020-04486.
doi: 10.1021/acsami.0c12732.
- S. Cheng et al.
Compact Ho:YLF-pumped $ZnGeP_2$ -based optical parametric amplifiers tunable in the molecular fingerprint regime.
Optics letters, 45(8):2255, and PUBDB-2020-05288.
doi: 10.1364/OL.389535.

- J. Choi et al.
Spatially inhomogeneous competition between superconductivity and the charge density wave in $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$.
Nature Communications, 11(1):990, and PUBDB-2020-03853.
doi: 10.1038/s41467-020-14536-1.
- C. W. Chuang et al.
Attractive Coulomb interaction, temperature-dependent hybridization, and natural circular dichroism in $1\text{T} - \text{TiSe}_2$.
Physical review / B, 102(19):195102, and PUBDB-2020-04198.
doi: 10.1103/PhysRevB.102.195102.
- G. Cirimi et al.
Novel method for the angular chirp compensation of passively CEP-stable few-cycle pulses.
Optics express, 28(3):3171, and PUBDB-2020-00452.
doi: 10.1364/OE.384290.
- D. Cocco et al.
Foreword to the special virtual issue dedicated to the proceedings of the PhotonDiag2018 workshop on FEL Photon Diagnostics, Instrumentation, and Beamlines Design.
Journal of synchrotron radiation, 27(2):250, and PUBDB-2021-00606.
doi: 10.1107/S1600577520001125.
- D. Comboni et al.
Highpressure behavior and phase stability of $\text{Na}_2\text{B}_4\text{O}_6(\text{OH})_2 \cdot 3\text{H}_2\text{O}$ (kernite).
Journal of the American Ceramic Society, 103(9):5291, and PUBDB-2020-01730.
doi: 10.1111/jace.17185.
- A. L. C. Conceição et al.
SAXS-CT: a nanostructure resolving microscopy for macroscopic biologic specimens.
Biomedical physics & engineering express, 6(3):035012, and PUBDB-2021-00333.
doi: 10.1088/2057-1976/ab7cad.
- J. Corno et al.
Uncertainty Modeling and Analysis of the European X-Ray Free Electron Laser Cavities Manufacturing Process.
Nuclear instruments & methods in physics research / A, 971:1, and PUBDB-2020-04056, 164135. arXiv:1906.09151.
doi: 10.1016/j.nima.2020.164135.
- R. D. P. Corotti et al.
Diphenylalanine Nanotube Coated Fiber Bragg Grating for Methanol Vapor Detection.
IEEE sensors journal, 20(3):1290, and PUBDB-2021-00624.
doi: 10.1109/JSEN.2019.2946123.
- S. Couper et al.
Does Heterogeneous Strain Act as a Control on Seismic Anisotropy in Earth's Lower Mantle?
Frontiers in Earth Science, 8:540449, and PUBDB-2020-03955.
doi: 10.3389/feart.2020.540449.
- I. Cucchi et al.
Bulk and Surface Electronic Structure of the Dual-Topology Semimetal Pt_2HgSe_3 .
Physical review letters, 124(10):106402 (1, and PUBDB-2021-00172.
doi: 10.1103/PhysRevLett.124.106402.
- T. F. Custódio et al.
Selection, biophysical and structural analysis of synthetic nanobodies that effectively neutralize SARS-CoV-2.
Nature Communications, 11(1):5588, and PUBDB-2020-04308.
doi: 10.1038/s41467-020-19204-y.
- J. Dai et al.
Tunable two-dimensional electron system at the (110) surface of SnO_2 .
Physical review / B, 101(8):085121 (1, and PUBDB-2021-00221.
doi: 10.1103/PhysRevB.101.085121.
- F. Dallari et al.
Microscopic pathways for stress relaxation in repulsive colloidal glasses.
Science advances, 6(12):eaaz2982, and PUBDB-2020-01207.
doi: 10.1126/sciadv.aaz2982.
- N. Das A et al.
Thermal stability and dynamics of soft nanoparticle membranes: role of entropy, enthalpy and membrane compressibility.
Soft matter, 16(4):1117, and PUBDB-2020-02377.
doi: 10.1039/C9SM01946D.
- A. Davtyan et al.
X-ray diffraction reveals the amount of strain and homogeneity of extremely bent single nanowires.
Journal of applied crystallography, 53(5):1310, and PUBDB-2020-04864.
doi: 10.1107/S1600576720011516.
- E. De Pauw et al.
Highly Sensitive Nondestructive Rare Earth Element Detection by Means of Wavelength-Dispersive X-ray Fluorescence Spectroscopy Enabled by an Energy Dispersive pn-Charge-Coupled-Device Detector.
Analytical chemistry, 92(1):1106, and PUBDB-2019-05157.
doi: 10.1021/acs.analchem.9b04176.
- B. De Samber et al.
Proof-of-concept for 2D/CT element analysis of entire cryofrozen islets of Langerhans using a cryoloop synchrotron X-ray fluorescence setup.
Journal of analytical atomic spectrometry, 35:10.1039.D0JA00067A, and PUBDB-2020-02275.
doi: 10.1039/D0JA00067A.
- B. De Samber et al.
Nanosopic X-ray imaging and quantification of the iron cellular architecture within single fibroblasts of Friedreich's ataxia patients.
Journal of synchrotron radiation, 27(1):185, and PUBDB-

2020-00002.

doi: 10.1107/S1600577519015510.

C. Dean et al.

Growth and development of the third permanent molar in *Paranthropus robustus* from Swartkrans, South Africa.
Scientific reports, 10(1):19053, and PUBDB-2020-04357.
doi: 10.1038/s41598-020-76032-2.

M. C. Dean et al.

Synchrotron X-ray fluorescence imaging of strontium incorporated into the enamel and dentine of wild-shot orangutan canine teeth.
Archives of oral biology, 119:104879 (1, and PUBDB-2020-04356.
doi: 10.1016/j.archoralbio.2020.104879.

A. Debnath et al.

Effect of silver nanoparticle doping on the physicochemical properties of a room temperature ferroelectric liquid crystal mixture.
Journal of molecular liquids, 319:1, and PUBDB-2020-03605.
doi: 10.1016/j.molliq.2020.114185.

W. Decking et al.

A MHz-Repetition-Rate Hard X-Ray Free-Electron Laser Driven by a Superconducting Linear Accelerator.
Nature photonics, 14(6):391, and PUBDB-2020-04827.
doi: 10.1038/s41566-020-0607-z.

Deepti et al.

Transformation of Au-Pd alloy nanoparticles to core-shell nanoparticles by electron irradiation.
Journal of alloys and compounds, 832:154944, and PUBDB-2021-00292.
doi: 10.1016/j.jallcom.2020.154944.

S. Deinert et al.

Interatomic resonant Auger effect in N₂O.
Journal of physics / B, 53(22):224003, and PUBDB-2020-05156.
doi: 10.1088/1361-6455/abbd2f.

U. Demirbas et al.

Comparison of different in situ optical temperature probing techniques for cryogenic Yb:YLF.
Optical materials express, 10(12):3403, and PUBDB-2020-04621.
doi: 10.1364/OME.411331.

U. Demirbas et al.

Power and energy scaling of rod-type cryogenic Yb:YLF regenerative amplifiers.
Journal of the Optical Society of America / B, 37(6):1865, and PUBDB-2020-01820.
doi: 10.1364/JOSAB.389548.

U. Demirbas and F. X. Kärtner.

Alexandrite: an attractive thin-disk laser material alternative to Yb:YAG?
Journal of the Optical Society of America / B, 37(2):459, and PUBDB-2020-00045.
doi: 10.1364/JOSAB.380140.

U. Demirbas et al.

20-mJ, sub-ps pulses at up to 70 W average power from a cryogenic Yb:YLF regenerative amplifier.
Optics express, 28(2):2466, and PUBDB-2020-00284.
doi: 10.1364/OE.384968.

U. Demirbas et al.

High-power passively mode-locked cryogenic Yb:YLF laser.
Optics letters, 45(7):2050, and PUBDB-2020-01215.
doi: 10.1364/OL.390291.

M. Dendzik et al.

Observation of an Excitonic Mott Transition Through Ultrafast Core- to Conduction Photoemission Spectroscopy.
Physical review letters, 125(9):096401: 1, and PUBDB-2020-03131.
doi: 10.1103/PhysRevLett.125.096401.

J. van Dinter et al.

What happens structurally and chemically during sodium uptake and release by Ni₂P₂S₆ : a combined X-ray diffraction, X-ray absorption, pair distribution function and MAS NMR analysis.
Journal of materials chemistry / A, 8(42):22401, and PUBDB-2020-04499.
doi: 10.1039/D0TA07889A.

A.-C. Dippel et al.

Evolution of short-range order in chemically and physically grown thin film bilayer structures for electronic applications.
Nanoscale, 12(24):13103, and PUBDB-2020-03854.
doi: 10.1039/D0NR01847C.

B. Domènech et al.

Strong Macroscale Supercrystalline Structures by 3D Printing Combined with Self-Assembly of Ceramic Functionalized Nanoparticles.
Advanced engineering materials, 22(2000352):1, and PUBDB-2020-03513.
doi: 10.1002/adem.202000352.

S. R. Domingos et al.

Assessing the performance of rotational spectroscopy in chiral analysis.
Chemical science, 11(40):10863, and PUBDB-2021-00518.
doi: 10.1039/D0SC03752D.

S. Dzierzhytski et al.

The TRIXS end-station for femtosecond time-resolved resonant inelastic X-ray free-electron laser FLASH.
Structural dynamics, 7(5):054301 (1, and PUBDB-2020-03171.
doi: 10.1063/4.0000029.

A. Echelmeier et al.

Segmented flow generator for serial crystallography at the European X-ray free electron laser.
Nature Communications, 11(1):4511, and PUBDB-2020-03402.
doi: 10.1038/s41467-020-18156-7.

- M. Eckermann et al.
3D virtual pathohistology of lung tissue from Covid-19 patients based on phase contrast X-ray tomography.
eLife, 9:e60408 (1, and PUBDB-2021-00594.
 doi: 10.7554/eLife.60408.
- H.-J. Elmers et al.
Néel Vector Induced Manipulation of Valence States in the Col-linear Antiferromagnet Mn_2Au .
ACS nano, 14(12):17554, and PUBDB-2021-01005.
 doi: 10.1021/acsnano.0c08215.
- R. Engel et al.
Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser.
Applied Sciences, 10(19):6947, and PUBDB-2020-03739.
 doi: 10.3390/app10196947.
- J. Engström et al.
Core-Shell Nanoparticle Interface and Wetting Properties.
Advanced functional materials, 30(15):1907720 (1, and PUBDB-2020-04459.
 doi: 10.1002/adfm.201907720.
- A. van der Ent et al.
Confocal Volumetric μXRF and Fluorescence Computed $\mu\text{-Tomography}$ Reveals Arsenic Three-Dimensional Distribution within Intact *Pteris vittata* Fronds.
Environmental science & technology, 54(2):745, and PUBDB-2020-01032.
 doi: 10.1021/acs.est.9b03878.
- S. Evertz et al.
Boron Concentration Induced Co-Ta-B Composite Formation Observed in the Transition from Metallic to Covalent Glasses.
Condensed Matter, 5(1):18, and PUBDB-2020-01238.
 doi: 10.3390/condmat5010018.
- S. Falke et al.
Crystal structures of native cytochrome c_6 from *Thermosynechococcus elongatus* in two different space groups and implications for its oligomerization.
Acta crystallographica / F Structural biology communications, 76(9):1, and PUBDB-2020-03114.
 doi: 10.1107/S2053230X20010249.
- G. Falkenberg et al.
CRL optics and silicon drift detector for P06 Microprobe experiments at 35 keV.
Powder diffraction, 35 (S1) (@020):34, and PUBDB-2020-02997.
 doi: 10.1017/S0885715620000536.
- M. Fatima et al.
Benchmarking a new segmented K-band chirped-pulse microwave spectrometer and its application to the conformationally rich amino alcohol isoleucinol.
Physical chemistry, chemical physics, 22:17042, and PUBDB-2020-02535.
 doi: 10.1039/D0CP01141J.
- M. Fatima et al.
Structures and internal dynamics of diphenylether and its aggregates with water.
Physical chemistry, chemical physics, 22(48):27966, and PUBDB-2021-01438.
 doi: 10.1039/D0CP04104A.
- V. Favre-Nicolin et al.
PyNX: high-performance computing toolkit for coherent X-ray imaging based on operators.
Journal of applied crystallography, 53(5):1404, and PUBDB-2020-04339.
 doi: 10.1107/S1600576720010985.
- O. Fedchenko et al.
Emitter-site specificity of hard x-ray photoelectron Kikuchi-diffraction.
New journal of physics, 22(10):103002 (1, and PUBDB-2021-00135.
 doi: 10.1088/1367-2630/abb68b.
- S. Festersen et al.
Nucleation and Growth of PbBrF Crystals at the Liquid Mercury–Electrolyte Interface Studied by Operando X-ray Scattering.
Langmuir, 36(37):10905, and PUBDB-2020-03590.
 doi: 10.1021/acs.langmuir.0c01199.
- S. E. Finnegan et al.
High-pressure structural systematics in samarium up to 222 GPa.
Physical review / B covering condensed matter and materials physics, 101(17):174109, and PUBDB-2020-02174.
 doi: 10.1103/PhysRevB.101.174109.
- S. Flenner et al.
Hard X-ray nano-holotomography with a Fresnel zone plate.
Optics express, 28(25):37514, and PUBDB-2020-04889.
 doi: 10.1364/OE.406074.
- R. Forbes et al.
Time-resolved site-selective imaging of predissociation and charge transfer dynamics: the CH_3I B-band.
Journal of physics / B, 53(22):224001, and PUBDB-2020-04051.
 doi: 10.1088/1361-6455/abb1fd.
- L. Frenzel et al.
Influence of TMAO as co-solvent on the gelation of silica-PNIPAm core-shell nanogels at intermediate volume fractions.
ChemPhysChem, 21:1318, and PUBDB-2020-01646.
 doi: 10.1002/cphc.202000114.
- L. Frenzel et al.
The Phase Diagram of Colloidal Silica-PNIPAm core-shell Nanogels.
Soft matter, 16(2):466, and PUBDB-2019-04449.
 doi: 10.1039/C9SM01884K.
- D. Garai et al.
Swelling of Steel Film by Hydrogen Absorption at Cathodic Potential in Electrolyte.
Physica status solidi / B Basic research, 257(6):2000055, and PUBDB-2020-02385.
 doi: 10.1002/pssb.202000055.

- K. Gautam et al.
Magnetic and orbital correlations in multiferroic $\text{CaMn}_7\text{O}_{12}$ probed by x-ray resonant elastic scattering.
Physical review / B covering condensed matter and materials physics, 101(22):224430, and PUBDB-2020-02477.
doi: 10.1103/PhysRevB.101.224430.
- V. Gei et al.
Soil chemistry, elemental profiles and elemental distribution in nickel hyperaccumulator species from New Caledonia.
Plant and soil, 457(1-2):293, and PUBDB-2021-00216.
doi: 10.1007/s11104-020-04714-x.
- G. Geng et al.
Atomistic structure of alkali-silica reaction products refined from X-ray diffraction and micro X-ray absorption data.
Cement and concrete research, 129:105958, and PUBDB-2021-00328.
doi: 10.1016/j.cemconres.2019.105958.
- G. Geng et al.
Mechanical behavior and phase change of alkali-silica reaction products under hydrostatic compression.
Acta crystallographica / B, 76(4):674, and PUBDB-2021-00134.
doi: 10.1107/S205252062000846X.
- S. Gepraegs et al.
Static magnetic proximity effects and spin Hall magnetoresistance in $\text{Pt}/\text{Y}_3\text{Fe}_5\text{O}_{12}$ and inverted $\text{Y}_3\text{Fe}_5\text{O}_{12}/\text{Pt}$ bilayers.
Physical review / B, 102(21):214438, and PUBDB-2021-00050.
doi: 10.1103/PhysRevB.102.214438.
- L. S. Germann et al.
Challenging the Ostwald rule of stages in mechanochemical cocrystallisation.
Chemical science, 11(37):10092, and PUBDB-2020-03676.
doi: 10.1039/D0SC03629C.
- Y. Gevorkov et al.
pinkIndexer – a universal indexer for pink-beam X-ray and electron diffraction snapshots.
Acta crystallographica / A Foundations and advances Section A, 76(2):1, and PUBDB-2020-00124.
doi: 10.1107/S2053273319015559.
- G. Gizer et al.
Improved kinetic behaviour of $\text{Mg}(\text{NH}_2)_2 - 2\text{LiH}$ doped with nanostructured K-modified- $\text{Li}_x\text{Ti}_y\text{O}_z$ for hydrogen storage.
Scientific reports, 10(1):8, and PUBDB-2020-02604.
doi: 10.1038/s41598-019-55770-y.
- K. Glazyrin et al.
Revisiting spin-state crossover in $(\text{MgFe})\text{O}$ by means of high-resolution x-ray diffraction from a single crystal.
Physical review / B, 101(18):184203 (1, and PUBDB-2021-00226.
doi: 10.1103/PhysRevB.101.184203.
- N. O. Golosova et al.
Magnetic and structural properties of Fe-doped layered cobaltite $\text{TbBaCo}_{1.91}\text{Fe}_{0.09}\text{O}_{5.5}$ at high pressures.
Journal of magnetism and magnetic materials, 494:165801, and PUBDB-2020-05073.
doi: 10.1016/j.jmmm.2019.165801.
- C. Gombola et al.
Microstructural Investigations of Novel High Temperature Alloys Based on $\text{NiAl}(\text{Cr},\text{Mo})$.
Metals, 10(7):961, and PUBDB-2020-02871.
doi: 10.3390/met10070961.
- C. Gombola et al.
A zone melting device for the in situ observation of directional solidification using high-energy synchrotron x rays.
Review of scientific instruments, 91(093901):1, and PUBDB-2020-03198.
doi: 10.1063/5.0019020.
- A. Goncharov et al.
Structure and stability of $2\text{H}_a - \text{MoS}_2$ at high pressure and low temperatures.
Physical review / B covering condensed matter and materials physics, 102(6):064105, and PUBDB-2020-03033.
doi: 10.1103/PhysRevB.102.064105.
- A. Gonnelli et al.
Metallo-responsive self-assembly of lipophilic guanines in hydrocarbon solvents: a systematic SAXS structural characterization.
Nanoscale, 12(2):1022, and PUBDB-2021-00212.
doi: 10.1039/C9NR08556D.
- L. A. Gorelova et al.
Compressibility of hingganite-(Y): high-pressure single crystal X-ray diffraction study.
Physics and chemistry of minerals, 47(5):22, and PUBDB-2021-00293.
doi: 10.1007/s00269-020-01090-x.
- L. A. Gorelova et al.
Pressure-Induced Phase Transitions in Danburite-Type Borosilicates.
The journal of physical chemistry / C, 124(47):26048, and PUBDB-2021-01437.
doi: 10.1021/acs.jpcc.0c08616.
- M. Görlin et al.
Key activity descriptors of nickel-iron oxygen evolution electrocatalysts in the presence of alkali metal cations.
Nature Communications, 11(1):6181, and PUBDB-2021-00380.
doi: 10.1038/s41467-020-19729-2.
- H. C. Gottschalk et al.
The first microsolvation step for furans: New experiments and benchmarking strategies.
The journal of chemical physics, 152(16):164303, and PUBDB-2021-00434.
doi: 10.1063/5.0004465.

- E. Grånäs et al.
Atomic scale step structure and orientation of a curved surface ZnO single crystal.
The journal of chemical physics, 152(7):074705, and PUBDB-2020-01307.
doi: 10.1063/1.5138909.
- H. Gretarsson et al.
IRIXS: a resonant inelastic X-ray scattering instrument dedicated to X-rays in the intermediate energy range.
Journal of synchrotron radiation, 27(2):999, and PUBDB-2020-00891.
doi: 10.1107/S1600577519017119.
- B. Gruber et al.
Ageing Behaviour of Al–Mg–Si Alloys After Cryogenic and Room Temperature Deformation.
Materials, 13(3):554, and PUBDB-2020-00698.
doi: 10.3390/ma13030554.
- B. Gruber et al.
Mechanism of low temperature deformation in aluminium alloys.
Materials science and engineering / A, 795:1, and PUBDB-2020-03675.
doi: 10.1016/j.msea.2020.139935.
- B. Gruber et al.
Room temperature recovery of cryogenically deformed aluminium alloys.
Materials and design, 193:108819, and PUBDB-2020-04310.
doi: 10.1016/j.matdes.2020.108819.
- S. P. Gruet, A. Steber and M. Schnell.
Reconnaissance of the uncharted low energy vibrational motions of acenaphthene.
Journal of molecular spectroscopy, 371:111296, and PUBDB-2020-02648.
doi: 10.1016/j.jms.2020.111296.
- S. Grundmann et al.
Observation of Photoion Backward Emission in Photoionization of He and N₂.
Physical review letters, 124(23):233201, and PUBDB-2020-02407.
doi: 10.1103/PhysRevLett.124.233201.
- S. Grundmann et al.
Zeptosecond birth time delay in molecular photoionization.
Science, 370(6514):339, and PUBDB-2020-04197.
doi: 10.1126/science.abb9318.
- M. M. Grzelak et al.
Investigation of the role and chemical form of iron in the ovarian carcinogenesis process.
Journal of trace elements in medicine and biology, 60:126500, and PUBDB-2021-00299.
doi: 10.1016/j.jtemb.2020.126500.
- N. Gupta et al.
Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi₂Te₄O₁₁ anti-glass by high energy X-ray diffraction.
RSC Advances, 10(22):13237, and PUBDB-2020-01325.
doi: 10.1039/D0RA01422B.
- J. Hagara et al.
Novel highly substituted thiophene-based n-type organic semiconductor: structural study, optical anisotropy and molecular control.
CrystEngComm, 22(42):7095, and PUBDB-2020-04376.
doi: 10.1039/D0CE01171A.
- J. Hagara et al.
Reorientation of π -conjugated molecules on few-layer MoS₂ films.
Physical chemistry, chemical physics, 22(5):3097, and PUBDB-2020-04378.
doi: 10.1039/C9CP05728E.
- J. He et al.
Phosphoric acid and thermal treatments reveal the peculiar role of surface oxygen anions in lithium and manganese-rich layered oxides.
Journal of materials chemistry / A, 0:1, and PUBDB-2020-04554.
doi: 10.1039/D0TA07371G.
- A. Henningsson et al.
Reconstructing intragranular strain fields in polycrystalline materials from scanning 3DXRD data.
Journal of applied crystallography, 53(2):314, and PUBDB-2021-00449.
doi: 10.1107/S1600576720001016.
- J. Herritsch et al.
Influence of Ring Contraction on the Electronic Structure of Nickel Tetrapyrrole Complexes: Corrole vs Porphyrin.
ECS journal of solid state science and technology, 9(6):061005, and PUBDB-2020-02758.
doi: 10.1149/2162-8777/ab9e18.
- M. G. Herrmann et al.
Lattice Dynamics of Sb₂Se₃ from Inelastic Neutron and XRay Scattering.
Physica status solidi / B, 257(6):2000063, and PUBDB-2020-05120.
doi: 10.1002/pssb.202000063.
- V. L. Heywood et al.
Observations of tetrel bonding between sp^3 -carbon and THF.
Chemical science, 11(20):5289, and PUBDB-2021-00615.
doi: 10.1039/D0SC01559H.
- J. Holovský et al.
Towards Quantitative Interpretation of Fourier-Transform Photocurrent Spectroscopy on Thin-Film Solar Cells.
Coatings, 10(9):820, and PUBDB-2020-03100.
doi: 10.3390/coatings10090820.
- K. Holtgrewe et al.
Topologization of β -antimonene on Bi₂Se₃ via proximity effects.
Scientific reports, 10(1):1, and PUBDB-2020-03116.
doi: 10.1038/s41598-020-71624-4.

- M. Horio et al.
Oxide Fermi liquid universality revealed by electron spectroscopy.
Physical review / B, 102(24):245153, and PUBDB-2021-00001.
doi: 10.1103/PhysRevB.102.245153.
- S. A. Hosseini-Yazdi et al.
Anion-directed assemblies of Cu(II) mono, di, and poly-nuclear coordination compounds with a 32-membered azacrown ligand: Synthesis, characterisation and crystal structures.
Journal of molecular medicine, 1215:128200, and PUBDB-2020-02696.
doi: 10.1016/j.molstruc.2020.128200.
- W. Hua et al.
Chemical and structural evolution during synthesis of layered $Li(Ni, Co, Mn)O_2$ oxides.
Chemistry of materials, 32(12):4984, and PUBDB-2020-02253.
doi: 10.1021/acs.chemmater.9b05279.
- Y. Hua et al.
Femtosecond two-color source synchronized at 100-as-precision based on SPM-enabled spectral selection.
Optics letters, 45(13):3410, and PUBDB-2021-00480.
doi: 10.1364/OL.391161.
- J.-M. Hübner et al.
High-pressure synthesis of $SmGe_3$.
Zeitschrift für Kristallographie / Crystalline materials, 235(8-9):1, and PUBDB-2020-03693.
doi: 10.1515/zkri-2020-0058.
- J. Immoor et al.
An improved setup for radial diffraction experiments at high pressures and high temperatures in a resistive graphite-heated diamond anvil cell.
Review of scientific instruments, 91(4):045121, and PUBDB-2020-01629.
doi: 10.1063/1.5143293.
- E. Isotta et al.
Origin of a Simultaneous Suppression of Thermal Conductivity and Increase of Electrical Conductivity and Seebeck Coefficient in Disordered Cubic Cu_2ZnSnS_4 .
Physical review applied, 14(6):064073, and PUBDB-2021-00494.
doi: 10.1103/PhysRevApplied.14.064073.
- R. Ivanov et al.
Single-shot temporal characterization of XUV pulses with duration from 10 fs to 350 fs at FLASH.
Journal of physics / B, 53(18):184004, and PUBDB-2020-05144.
doi: 10.1088/1361-6455/ab9c38.
- A. Jafari et al.
Phonon Spectroscopy in Antimony and Tellurium Oxides.
The journal of physical chemistry / A, 124(39):7869, and PUBDB-2021-00588.
doi: 10.1021/acs.jpca.0c05060.
- A. Jain et al.
Anisotropic and heterogeneous dynamics in an aging colloidal gel.
Soft matter, 16(11):2864, and PUBDB-2020-01104.
doi: 10.1039/C9SM02230A.
- M. E. Jawerth et al.
Mechanical and Morphological Properties of Lignin-Based Thermosets.
ACS applied polymer materials, 2(2):668, and PUBDB-2020-04461.
doi: 10.1021/acsapm.9b01007.
- F. Ji et al.
LeadFree Halide Double Perovskite $Cs_2AgBiBr_6$ with Decreased Band Gap.
Angewandte Chemie / International edition, 59(35):15191, and PUBDB-2020-03680.
doi: 10.1002/anie.202005568.
- S. Ji et al.
Transient three-dimensional structural dynamics in 1T-TaSe₂.
Physical review / B covering condensed matter and materials physics, 101(9):094303, and PUBDB-2020-01202.
doi: 10.1103/PhysRevB.101.094303.
- X. Jiang et al.
Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells.
Journal of materials chemistry / A, 8(44):23628, and PUBDB-2021-00367.
doi: 10.1039/D0TA09671G.
- I. Jonane et al.
Low temperature X-ray absorption spectroscopy study of $CuMoO_4$ and $CuMo_{0.90}W_{0.10}O_4$ using reverse Monte-Carlo method.
Radiation physics and chemistry, 175:108411, and PUBDB-2020-02471.
doi: 10.1016/j.radphyschem.2019.108411.
- A. E. F. de Jong et al.
Complex Geometric Structure of a Simple Solid-Liquid Interface: GaN(0001)-Ga.
Physical review letters, 124(8):086101, and PUBDB-2020-01004.
doi: 10.1103/PhysRevLett.124.086101.
- L. Josefsson et al.
Potato Protein Nanofibrils Produced from a Starch Industry Sidestream.
ACS sustainable chemistry & engineering, 8(2):1058, and PUBDB-2020-05124.
doi: 10.1021/acssuschemeng.9b05865.
- E. Josten et al.
Strong size selectivity in the self-assembly of rounded nanocubes into 3D mesocrystals.
Nanoscale horizons, 5(7):1065, and PUBDB-2020-03034.
doi: 10.1039/D0NH00117A.

B. Journaux et al.

Holistic Approach for Studying Planetary Hydrospheres: Gibbs Representation of Ices Thermodynamics, Elasticity, and the Water Phase Diagram to 2,300 MPa.

Journal of geophysical research / Planets, 125(1):1, and PUBDB-2021-00291.
doi: 10.1029/2019JE006176.

E. A. Juarez-Arellano et al.

Synthesis and characterization of $Pt(Cu_{0.67}Sn_{0.33})$.

Solid state sciences, 105:106282, and PUBDB-2020-02170.
doi: 10.1016/j.solidstatesciences.2020.106282.

P. A. Julien et al.

In situ monitoring of mechanochemical synthesis of calcium urea phosphate fertilizer cocrystal reveals highly effective water-based autocatalysis.

Chemical science, 11(9):2350, and PUBDB-2020-02605.
doi: 10.1039/C9SC06224F.

L. Kaiser et al.

Angular emission distribution of O 1s photoelectrons of uniaxially oriented methanol.

Journal of physics / B, 53(19):194002, and PUBDB-2020-03268.
doi: 10.1088/1361-6455/aba3d3.

A. Kalinko et al.

A von Hamos-type hard X-ray spectrometer at the PETRA III beamline P64.

Journal of synchrotron radiation, 27(1):31, and PUBDB-2020-00078.
doi: 10.1107/S1600577519013638.

J. Kalt et al.

Lattice dynamics and polarization-dependent phonon damping in α -phase $FeSi_2$ nanostructures.

Physical review / B, 101(16):165406 (1, and PUBDB-2020-04361.
doi: 10.1103/PhysRevB.101.165406.

J. Kalt et al.

Lattice dynamics of endotaxial silicide nanowires.

Physical review / B, 102(19):195414 (1, and PUBDB-2021-00232.
doi: 10.1103/PhysRevB.102.195414.

E. Karamatskos et al.

Time-resolving the UV-initiated photodissociation dynamics of OCS.

Faraday discussions, 00:1, and PUBDB-2020-04146.
doi: 10.1039/D0FD00119H.

A. Karamatskou et al.

Suppression of hole decoherence in ultrafast photoionization.

Physical review / A covering atomic, molecular, and optical physics and quantum information, 101(4):043405, and PUBDB-2020-01469.
doi: 10.1103/PhysRevA.101.043405.

G. Kastirke et al.

Double Core-Hole Generation in O_2 Molecules Using an X-Ray Free-Electron Laser: Molecular-Frame Photoelectron Angular Distributions.

Physical review letters, 125(16):163201 (1, and PUBDB-2020-03890.
doi: 10.1103/PhysRevLett.125.163201.

G. Kastirke et al.

Photoelectron Diffraction Imaging of a Molecular Breakup Using an X-Ray Free-Electron Laser.

Physical review / X Expanding access, 10(2):021052, and PUBDB-2020-02563.
doi: 10.1103/PhysRevX.10.021052.

R. Kaur et al.

Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis.

Acta crystallographica / B Structural science, crystal engineering and materials Section B, 76(1):108, and PUBDB-2020-00632.
doi: 10.1107/S2052520620000025.

K. Khalili et al.

Simulation of time-resolved x-ray absorption spectroscopy of ultrafast dynamics in particle-hole-excited 4(2-thienyl)-2,1,3-benzothiadiazole.

Structural dynamics, 7(4):044101, and PUBDB-2020-02649.
doi: 10.1063/4.0000016.

A. Khanas et al.

$EuS/Hf_{0.5}Zr_{0.5}O_2$ Bilayers as a Prospective Multiferroic System.

Advanced materials interfaces, 2020:2000411, and PUBDB-2020-02410.
doi: 10.1002/admi.202000411.

S. Khandarkhaeva et al.

Novel Rhenium Carbides at 200 GPa.

European journal of inorganic chemistry, 2020(22):2186, and PUBDB-2021-00133.
doi: 10.1002/ejic.202000252.

A. G. Khanderao et al.

Interface resolved magnetism at metal-organic (Fe/Alq_3) interfaces under x-ray standing wave condition.

Applied physics letters, 116(10):101603, and PUBDB-2020-02390.
doi: 10.1063/1.5135361.

T. Kierspel et al.

X-ray diffractive imaging of controlled gas-phase molecules: Toward imaging of dynamics in the molecular frame.

The journal of chemical physics, 152(8):084307, and PUBDB-2020-00943.
doi: 10.1063/1.5133963.

A. Kiiamov et al.

Application of Nuclear Inelastic Scattering Spectroscopy to the Frequency Scale Calibration of Ab Initio Calculated Phonon Density of States of Quasi-One-Dimensional Ternary Iron Chalcogenide $RbFeSe_2$.

Applied Sciences, 10(20):7212, and PUBDB-2021-00493.
doi: 10.3390/app10207212.

A. Kilaj et al.

Quantum-chemistry-aided identification, synthesis and experimental validation of model systems for conformationally controlled reaction studies: Separation of the conformers of 2,3-dibromobuta-1,3-diene in the gas phase.

Physical chemistry, chemical physics, 22(24):13431, and PUBDB-2020-02256.

doi: 10.1039/D0CP01396J.

K. H. Kim et al.

Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure.

Science / Science now, 370(6519):978, and PUBDB-2020-04811.

doi: 10.1126/science.abb9385.

Y. Y. Kim et al.

Ghost imaging at an XUV free-electron laser.

Physical review / A covering atomic, molecular, and optical physics and quantum information, 101(1):013820, and PUBDB-2020-00518.

doi: 10.1103/PhysRevA.101.013820.

Kiranjot et al.

Influence of spin orbit splitting and satellite transitions on nickel soft X-ray optical properties near its L 2,3 absorption edge region.

Journal of synchrotron radiation, 27(6):1633, and PUBDB-2021-00545.

doi: 10.1107/S1600577520011960.

M. Kircher et al.

Kinematically complete experimental study of Compton scattering at helium atoms near the threshold.

Nature physics, 16(7):756, and PUBDB-2020-02621.

doi: 10.1038/s41567-020-0880-2.

L. Kjellsson et al.

Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical.

Physical review letters, 124(23):236001, and PUBDB-2020-02363.

doi: 10.1103/PhysRevLett.124.236001.

B. D. Klee et al.

Generating large starting configurations for molecular Reverse Monte Carlo modelling of an unique non-linear optical amorphous solid.

Journal of physics communications, 4(3):035004, and PUBDB-2020-02606.

doi: 10.1088/2399-6528/ab756c.

N. Klemke et al.

Role of intraband dynamics in the generation of circularly polarized high harmonics from solids.

Physical review / B, 102(10):104308 (1, and PUBDB-2020-03592.

doi: 10.1103/PhysRevB.102.104308.

R. M. Kluge et al.

Doping Dependent InPlane and CrossPlane Thermoelectric Performance of Thin nType Polymer P(NDI2ODT2) Films.

Advanced functional materials, 30(28):2003092, and PUBDB-2020-04458.

doi: 10.1002/adfm.202003092.

J. Knoska et al.

Ultracompact 3D microfluidics for time-resolved structural biology.

Nature Communications, 11(1):657, and PUBDB-2020-00623.

doi: 10.1038/s41467-020-14434-6.

Y. V. Knyazev et al.

Nuclear forward scattering application to the spiral magnetic structure study in ϵ -Fe₂O₃.

Physical review / B, 101(9):094408, and PUBDB-2021-00593.

doi: 10.1103/PhysRevB.101.094408.

A. Köbke et al.

Reversible coordination-induced spin-state switching in complexes on metal surfaces.

Nature nanotechnology, 15(1):18, and PUBDB-2020-00200.

doi: 10.1038/s41565-019-0594-8.

M. Kodur et al.

XRy Microscopy of Halide Perovskites: Techniques, Applications, and Prospects.

Advanced energy materials, 10(26):1903170, and PUBDB-2020-00665.

doi: 10.1002/aenm.201903170.

E. Koemets et al.

Interaction Between FeOOH and NaCl at Extreme Conditions: Synthesis of Novel Na₂FeCl₄OH_x Compound.

Minerals, 10(1):51, and PUBDB-2021-00572.

doi: 10.3390/min10010051.

C. von Korff Schmising et al.

Element-Specific Magnetization Dynamics of Complex Magnetic Systems Probed by Ultrafast Magneto-Optical Spectroscopy.

Applied Sciences, 10(21):7580, and PUBDB-2020-04104.

doi: 10.3390/app10217580.

K. Kosiba et al.

Phase formation of a biocompatible Ti-based alloy under kinetic constraints studied via in-situ high-energy X-ray diffraction.

Progress in natural science: materials international, 30(3):432, and PUBDB-2020-04897.

doi: 10.1016/j.pnsc.2020.06.004.

D. Koulentianos et al.

High intensity x-ray interaction with a model bio-molecule system: double-core-hole states and fragmentation of formamide.

Journal of physics / B, 53(24):244005, and PUBDB-2020-04398.

doi: 10.1088/1361-6455/abc183.

S. Koyiloth Vayalil et al.

Tailoring of uniaxial magnetic anisotropy in Permalloy thin films using nanorippled Si substrates.

Journal of physics / Condensed matter, 32(18):185804, and PUBDB-2020-03996.

doi: 10.1088/1361-648X/ab6d0d.

B. Krichel et al.

Processing of the SARS-CoV pp1a/ab nsp7–10 region.

The biochemical journal / Reviews, 477(5):1009, and PUBDB-2021-00613.

doi: 10.1042/BCJ20200029.

J. Krieff et al.

Advanced data analysis procedure for hard x-ray resonant magnetic reflectivity discussed for Pt thin film samples of various complexity.

Journal of physics / D Applied physics, 53(37):1, and PUBDB-2020-02998.

doi: 10.1088/1361-6463/ab8fdc.

T. Kroll et al.

Observation of Seeded Mn K β Stimulated X-Ray Emission Using Two-Color X-Ray Free-Electron Laser Pulses.

Physical review letters, 125(3):037404 (1, and PUBDB-2020-03698.

doi: 10.1103/PhysRevLett.125.037404.

S. Kühn et al.

High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem.

Physical review letters, 124(22):225001 (1, and PUBDB-2020-05089, arXiv:1911.09707.

doi: 10.1103/PhysRevLett.124.225001.

Y. Kumagai et al.

Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence.

Physical review / A covering atomic, molecular, and optical physics and quantum information, 101(2):023412, and PUBDB-2020-01005.

doi: 10.1103/PhysRevA.101.023412.

P. Kumar et al.

Structural and magnetic properties of co-sputtered Fe_{0.8}C_{0.2} thin films.

Physical review materials, 4(1):013402, and PUBDB-2020-05066.

doi: 10.1103/PhysRevMaterials.4.013402.

K. Kunnus et al.

Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering.

Nature Communications, 11(1):634 (1, and PUBDB-2021-00565.

doi: 10.1038/s41467-020-14468-w.

A. Kunwar et al.

Integration of machine learning with phase field method to model the electromigration induced Cu₆Sn₅ IMC growth at anode side Cu/Sn interface.

Journal of materials science & technology, 59:203, and PUBDB-2021-00602.

doi: 10.1016/j.jmst.2020.04.046.

A. Y. Kurenkova et al.

Influence of Thermal Activation of Titania on Photoreactivity of Pt/TiO₂ in Hydrogen Production.

Catalysis letters, 151:748, and PUBDB-2021-00542.

doi: 10.1007/s10562-020-03321-w.

D. Kutnyakhov et al.

Time- and momentum-resolved photoemission studies using time-of-flight momentum microscopy at a free-electron laser.

Review of scientific instruments, 91(1):013109, and PUBDB-2019-04797.

doi: 10.1063/1.5118777.

A. C. LaForge et al.

Time-resolved quantum beats in the fluorescence of helium resonantly excited by XUV radiation.

Journal of physics / B, 53(24):244012, and PUBDB-2020-04709.

doi: 10.1088/1361-6455/abc660.

J. M. Lahey-Rudolph et al.

Rapid screening of in cellulose grown protein crystals via a small-angle X-ray scattering/X-ray powder diffraction synergistic approach.

Journal of applied crystallography, 53(5):1169, and PUBDB-2020-04297.

doi: 10.1107/S1600576720010687.

P. Lakner et al.

Probing the Electrolyte Transfer in Ultrathin Polypyrrole Films by In Situ X-ray Reflectivity and Electrochemistry.

Langmuir, 36(45):13448, and PUBDB-2020-04509.

doi: 10.1021/acs.langmuir.0c02068.

D. Lancon et al.

Evolution of field-induced metastable phases in the Shastry-Sutherland lattice magnet TmB₄.

Physical review / B covering condensed matter and materials physics, 102(6):060407: 1, and PUBDB-2020-03066.

doi: 10.1103/PhysRevB.102.060407.

M. Langberg et al.

Lateral Variation of the Native Passive Film on Super Duplex Stainless Steel Resolved by Synchrotron Hard X-Ray Photoelectron Emission Microscopy.

Corrosion science, 174:108841, and PUBDB-2020-02560.

doi: 10.1016/j.corsci.2020.108841.

D. Laniel et al.

High-Pressure Polymeric Nitrogen Allotrope with the Black Phosphorus Structure.

Physical review letters, 124(21):216001, and PUBDB-2021-00298.

doi: 10.1103/PhysRevLett.124.216001.

D. Laniel et al.

Novel sulfur hydrides synthesized at extreme conditions.

Physical review / B, 102(13):134109 (1, and PUBDB-2020-04264.

doi: 10.1103/PhysRevB.102.134109.

- G. Laude et al.
Calculations of quantum tunnelling rates for muonium reactions with methane, ethane and propane.
Physical chemistry, chemical physics, 22(29):16843, and PUBDB-2021-00462.
doi: 10.1039/D0CP01346C.
- K.-Y. Lee et al.
Electric-Field-Induced Phase Transformation and Frequency-Dependent Behavior of Bismuth Sodium Titanate-Barium Titanate.
Materials, 13(5):1054, and PUBDB-2020-00927.
doi: 10.3390/ma13051054.
- K.-Y. Lee et al.
The complex structural mechanisms behind strain curves in bismuth sodium titanate-barium titanate.
Applied physics letters, 116(18):182902, and PUBDB-2020-02620.
doi: 10.1063/5.0005401.
- F. Lehmkuhler et al.
Emergence of Anomalous Dynamics in soft matter probed at the European XFEL.
Proceedings of the National Academy of Sciences of the United States of America, 117(39):24110, and PUBDB-2020-03503.
doi: 10.1073/pnas.2003337117.
- F. Lehmkuhler et al.
Slowing down of dynamics and orientational order preceding crystallisation in hard-sphere systems.
Science advances, 6(43):eabc5916 (1, and PUBDB-2020-03539.
doi: 10.1126/sciadv.abc5916.
- S. Leubner et al.
Design and Precursor-based Solid-State Synthesis of Mixed-Linker Zr-MIL-140A.
Inorganic chemistry, 59(20):15250, and PUBDB-2020-04721.
doi: 10.1021/acs.inorgchem.0c02221.
- M. Leutenegger et al.
High-Precision Determination of Oxygen K_{α} Transition Energy Excludes Incongruent Motion of Interstellar Oxygen.
Physical review letters, 125(24):243001 (1, and PUBDB-2021-00584.
doi: 10.1103/PhysRevLett.125.243001.
- F. Lever et al.
Ultrafast dynamics of 2-thiouracil investigated by time-resolved Auger spectroscopy.
Journal of physics / B, 54(1):014002, and PUBDB-2021-00088.
doi: 10.1088/1361-6455/abc9cb.
- D. Levy et al.
High-pressure structural and electronic properties of CuMO_2 ($M = \text{Cr}, \text{Mn}$) delafossite-type oxides.
Physical review / B, 101(24):245121, and PUBDB-2021-00616.
doi: 10.1103/PhysRevB.101.245121.
- C. Li et al.
Elucidating the Mechanism of Li Insertion into Fe_{1-x}S /Carbon via In Operando Synchrotron Studies.
ACS applied materials & interfaces, 12(47):52691, and PUBDB-2020-04916.
doi: 10.1021/acsami.0c15500.
- J. Li et al.
The effect of Sn substitution on the structure and oxygen activity of $\text{Na}_{0.67}\text{Ni}_{0.33}\text{Mn}_{0.67}\text{O}_2$ cathode materials for sodium ion batteries.
Journal of power sources, 449:227554, and PUBDB-2020-02382.
doi: 10.1016/j.jpowsour.2019.227554.
- L. Li et al.
High numerical aperture Hartmann wave front sensor for extreme ultraviolet spectral range.
Optics letters, 45(15):4248, and PUBDB-2021-00626.
doi: 10.1364/OL.396356.
- N. Li et al.
In Situ Study of Order Formation in Mesoporous Titania Thin Films Templated by a Diblock Copolymer during Slot-Die Printing.
ACS applied materials & interfaces, 12(51):57627, and PUBDB-2021-00958.
doi: 10.1021/acsami.0c18851.
- N. Li et al.
Continuous scanning for Bragg coherent X-ray imaging.
Scientific reports, 10(1):12760, and PUBDB-2020-04336.
doi: 10.1038/s41598-020-69678-5.
- N. Li et al.
Mapping Inversion Domain Boundaries along Single GaN Wires with Bragg Coherent X-ray Imaging.
ACS nano, 14(8):10305, and PUBDB-2020-04337.
doi: 10.1021/acs.nano.0c03775.
- Y. Liang et al.
Isosymmetric phase transitions, ultrahigh ductility, and topological nodal lines in $\alpha - \text{Ag}_2\text{S}$.
Physical review / B, 102(14):140101, and PUBDB-2020-03902.
doi: 10.1103/PhysRevB.102.140101.
- E. Liebhaber et al.
Yu-Shiba-Rusinov States in the Charge-Density Modulated Superconductor NbSe_2 .
Nano letters, 20(1):339, and PUBDB-2020-00199.
doi: 10.1021/acs.nanolett.9b03988.
- J. Lim et al.
Compression behavior of dense $\text{H}_2 - \text{He}$ mixtures up to 160 GPa.
Physical review / B covering condensed matter and materials physics, 101(22):224103, and PUBDB-2020-02250.
doi: 10.1103/PhysRevB.101.224103.

- B. Lin et al.
Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses.
Energy & environmental science, 13(8):2467, and PUBDB-2020-04362.
doi: 10.1039/D0EE00774A.
- V. Lipp et al.
Solving a System of Differential Equations Containing a Diffusion Equation with Nonlinear Terms on the Example of Laser Heating in Silicon.
Applied Sciences, 10(5):1853, and PUBDB-2020-01006.
doi: 10.3390/app10051853.
- J. Liu et al.
Altered Sarcomeric Structure and Function in Woody Breast Myopathy of Avian Pectoralis Major Muscle.
Frontiers in physiology, 11:287, and PUBDB-2021-00161.
doi: 10.3389/fphys.2020.00287.
- W.-S. Liu et al.
Spatially Resolved Localization of Lanthanum and Cerium in the Rare Earth Element Hyperaccumulator *Fern Dicranopteris linearis* from China.
Environmental science & technology, 54(4):2287, and PUBDB-2020-01031.
doi: 10.1021/acs.est.9b05728.
- Y. Liu et al.
Eight-pass Yb:YLF cryogenic amplifier generating 305-mJ pulses.
OSA continuum, 3(10):2722, and PUBDB-2021-00475.
doi: 10.1364/OSAC.406041.
- Y. Liu et al.
The structural origin of enhanced stability of $\text{Na}_{3.32}\text{Fe}_{2.106}\text{Ca}_{0.234}(\text{P}_2\text{O}_7)_2$ cathode for Na-ion batteries.
Nano energy, 0:1, and PUBDB-2020-03673.
doi: 10.1016/j.nanoen.2020.105417.
- Y. Liu et al.
Coherent Epitaxial Semiconductor–Ferromagnetic Insulator InAs/EuS Interfaces: Band Alignment and Magnetic Structure.
ACS applied materials & interfaces, 12(7):8780, and PUBDB-2020-04536.
doi: 10.1021/acsami.9b15034.
- N. M. Lockmann et al.
Noninvasive THz spectroscopy for bunch current profile reconstructions at MHz repetition rates.
Physical review accelerators and beams, 23(11):112801, and PUBDB-2020-04551.
doi: 10.1103/PhysRevAccelBeams.23.112801.
- Z.-H. Loh et al.
Observation of the fastest chemical processes in the radiolysis of water.
Science, 367(6474):179, and PUBDB-2020-00697.
doi: 10.1126/science.aaz4740.
- F. C. Löhner et al.
Following in Situ the Deposition of Gold Electrodes on Low Band Gap Polymer Films.
ACS applied materials & interfaces, 12(1):1132, and PUBDB-2020-04462.
doi: 10.1021/acsami.9b17590.
- L. M. Lohse et al.
A phase-retrieval toolbox for X-ray holography and tomography.
Journal of synchrotron radiation, 27(3):852, and PUBDB-2020-04886.
doi: 10.1107/S1600577520002398.
- D. M. López et al.
Characterization of the complex of the lysosomal membrane transporter MFSD1 and its accessory subunit GLMP.
The FASEB journal, 34(11):14695, and PUBDB-2021-00623.
doi: 10.1096/fj.202000912RR.
- Y. Ma et al.
Phase boundary segregation-induced strengthening and discontinuous yielding in ultrafine-grained duplex medium-Mn steels.
Acta materialia, 200:389, and PUBDB-2020-03500.
doi: 10.1016/j.actamat.2020.09.007.
- A. Maier et al.
Structure–Transport Correlation Reveals Anisotropic Charge Transport in Coupled PbS Nanocrystal Superlattices.
Advanced materials, 32:2002254, and PUBDB-2020-04373.
doi: 10.1002/adma.202002254.
- S. Makarov et al.
Soft X-ray diffraction patterns measured by a LiF detector with sub-micrometre resolution and an ultimate dynamic range.
Journal of synchrotron radiation, 27(3):625, and PUBDB-2021-00425.
doi: 10.1107/S1600577520002192.
- T. Mandl et al.
Structural Heterogeneity in Single Particle Imaging Using X-ray Lasers.
The journal of physical chemistry letters, 11:6077, and PUBDB-2020-02822.
doi: 10.1021/acs.jpclett.0c01144.
- A. Marjollet and R. Welsch.
Nuclear quantum effects in state-selective scattering from ring polymer molecular dynamics.
The journal of chemical physics, 152(19):194113, and PUBDB-2020-02188.
doi: 10.1063/5.0004179.
- A. Marjollet and R. Welsch.
State-selective cross sections from ring polymer molecular dynamics.
International journal of quantum chemistry, 26447(3):1, and PUBDB-2020-03444.
doi: 10.1002/qua.26447.
- V. Markmann et al.
Shear-induced ordering in liquid microjets seen by x-ray cross correlation analysis.
Structural dynamics, 7(5):054901, and PUBDB-2020-03769.
doi: 10.1063/4.0000038.

- A. Martinelli et al.
Probing the dynamics of B_2O_3 across the glass transition: an X-ray photon correlation spectroscopy study.
The philosophical magazine, 100(20):2636, and PUBDB-2021-00534.
doi: 10.1080/14786435.2020.1757172.
- A. S. Mayer et al.
Flexible all-PM NALM Yb: fiber laser design for frequency comb applications: operation regimes and their noise properties.
Optics express, 28(13):18946, and PUBDB-2020-05242.
doi: 10.1364/OE.394543.
- T. Mazza et al.
Mapping Resonance Structures in Transient Core-Ionized Atoms.
Physical review / X, 10(4):041056, and PUBDB-2021-00009.
doi: 10.1103/PhysRevX.10.041056.
- T. Meier et al.
Proton mobility in metallic copper hydride from high-pressure nuclear magnetic resonance.
Physical review / B, 102(16):165109, and PUBDB-2020-03766.
doi: 10.1103/PhysRevB.102.165109.
- S. Meister et al.
Atomic, Molecular and Cluster Science with the Reaction Microscope Endstation at FLASH2.
Applied Sciences, 10(8):2953, and PUBDB-2021-00103.
doi: 10.3390/app10082953.
- S. Meister et al.
Photoelectron spectroscopy of laser-dressed atomic helium.
Physical review / A, 102(6):062809, and PUBDB-2020-04854.
doi: 10.1103/PhysRevA.102.062809.
- J. Melke et al.
Investigating the Effect of Microstructure and Surface Functionalization of Mesoporous N-Doped Carbons on V^{4+}/V^{5+} Kinetics.
ACS applied energy materials, 3(12):11627, and PUBDB-2021-01435.
doi: 10.1021/acsaem.0c01489.
- J. Meng et al.
Modulating Charge-Carrier Dynamics in Mn-Doped All-Inorganic Halide Perovskite Quantum Dots through the Doping-Induced Deep Trap States.
The journal of physical chemistry letters, 11(9):3705, and PUBDB-2021-00181.
doi: 10.1021/acs.jpclett.0c01050.
- L. R. Merte et al.
Structure of two-dimensional Fe_3O_4 .
The journal of chemical physics, 152(11):114705 (1, and PUBDB-2021-00166.
doi: 10.1063/1.5142558.
- J. Metje et al.
URSA-PQ: A Mobile and Flexible Pump-Probe Instrument for Gas Phase Samples at the FLASH Free Electron Laser.
Applied Sciences, 10(21):7882, and PUBDB-2020-04254.
doi: 10.3390/app10217882.
- J. Meza-Galvez et al.
Thermomechanical response of thickly tamped targets and diamond anvil cells under pulsed hard x-ray irradiation.
Journal of applied physics, 127(19):195902, and PUBDB-2020-02145.
doi: 10.1063/1.5141360.
- I. Milov et al.
Similarity in ruthenium damage induced by photons with different energies: From visible light to hard X-rays.
Applied surface science, 501:143973, and PUBDB-2019-03690.
doi: 10.1016/j.apsusc.2019.143973.
- I. Milov et al.
Two-level ablation and damage morphology of Ru films under femtosecond extreme UV irradiation.
Applied surface science, 528:146952, and PUBDB-2020-02474.
doi: 10.1016/j.apsusc.2020.146952.
- O. V. Molodtsova et al.
2D/3D Metallic Nano-objects Self-Organized in an Organic Molecular Thin Film.
ACS omega, 5(18):10441, and PUBDB-2020-04481.
doi: 10.1021/acsomega.0c00391.
- O. Molodtsova et al.
Noble metal nanoparticles in organic matrix.
Applied surface science, 506:144980, and PUBDB-2020-04480.
doi: 10.1016/j.apsusc.2019.144980.
- L. Monico et al.
Damages Induced by Synchrotron Radiation-Based X-ray Microanalysis in Chrome Yellow Paints and Related Cr-Compounds: Assessment, Quantification, and Mitigation Strategies.
Analytical chemistry, 92(20):14164, and PUBDB-2020-03672.
doi: 10.1021/acs.analchem.0c03251.
- L. Monico et al.
Probing the chemistry of CdS paints in The Scream by in situ noninvasive spectroscopies and synchrotron radiation x-ray techniques.
Science advances, 6(20):eaay3514, and PUBDB-2020-02178.
doi: 10.1126/sciadv.aay3514.
- M. C. O. Monteiro, L. Jacobse and M. Koper.
Understanding the Voltammetry of Bulk CO Electrooxidation in Neutral Media through Combined SECM Measurements.
The journal of physical chemistry letters, 11:9708, and PUBDB-2020-04512.
doi: 10.1021/acs.jpclett.0c02779.
- M. C. O. Monteiro et al.
Mediator-Free SECM for Probing the Diffusion Layer pH with Functionalized Gold Ultramicroelectrodes.
Analytical chemistry, 92(2):2237, and PUBDB-2021-00543.
doi: 10.1021/acs.analchem.9b04952.

- A. J. Morgan et al.
Ptychographic X-ray speckle tracking.
Journal of applied crystallography, 53(3):760, and PUBDB-2020-02274.
doi: 10.1107/S1600576720005567.
- A. J. Morgan et al.
Ptychographic X-ray speckle tracking with multi-layer Laue lens systems.
Journal of applied crystallography, 53(4):927, and PUBDB-2020-02528.
doi: 10.1107/S1600576720006925.
- A. J. Morgan et al.
speckle-tracking : a software suite for ptychographic X-ray speckle tracking.
Journal of applied crystallography, 53(6):1603, and PUBDB-2020-04142, arXiv:2003.12726.
doi: 10.1107/S1600576720011991.
- A. B. Mori et al.
Effects of dose rate absorption in extracellular potassium concentration of red cells concentrates.
Radiation physics and chemistry, 167:108342, and PUBDB-2021-00249.
doi: 10.1016/j.radphyschem.2019.05.032.
- F. Morina et al.
Interaction Between Zn Deficiency, Toxicity and Turnip Yellow Mosaic Virus Infection in *Nocca ochroleucum*.
Frontiers in Plant Physiology, 11:739, and PUBDB-2020-02996.
doi: 10.3389/fpls.2020.00739.
- A. Mueller et al.
Photoionization and photofragmentation of singly charged positive and negative $Sc_3N@C_{80}$ endohedral fullerene ions.
Journal of physics / Conference Series, 1412:202027, and PUBDB-2020-02342.
doi: 10.1088/1742-6596/1412/20/202027.
- S. Mukamel et al.
Roadmap on quantum light spectroscopy.
Journal of physics / B, 53(7):072002, and PUBDB-2021-00564.
doi: 10.1088/1361-6455/ab69a8.
- N. Mukharamova et al.
Femtosecond laser produced periodic plasma in a colloidal crystal probed by XFEL radiation.
Scientific reports, 10(1):10780, and PUBDB-2020-02570.
doi: 10.1038/s41598-020-67214-z.
- A. MUKHOPADHYAY et al.
Asymmetric modification of the magnetic proximity effect in Pt/Co/Pt trilayers by the insertion of a Ta buffer layer.
Physical review / B, 102(14):144435, and PUBDB-2020-03995.
doi: 10.1103/PhysRevB.102.144435.
- K. Nass et al.
In cellulose crystallization of *Trypanosoma brucei* IMP dehydrogenase enables the identification of genuine co-factors.
Nature Communications, 11(1):620, and PUBDB-2020-00621.
doi: 10.1038/s41467-020-14484-w.
- K. Nass et al.
Structural dynamics in proteins induced by and probed with X-ray free-electron laser pulses.
Nature Communications, 11(1):1814, and PUBDB-2020-01539.
doi: 10.1038/s41467-020-15610-4.
- M. A. Naumova et al.
Revealing Hot and Long-Lived Metastable Spin States in the Photoinduced Switching of Solvated Metallogrid Complexes with Femtosecond Optical and X-ray Spectroscopies.
The journal of physical chemistry letters, 11:2133, and PUBDB-2020-00963.
doi: 10.1021/acs.jpclett.9b03883.
- M. Naumova et al.
Exploring the light-induced dynamics in solvated metallogrid complexes with femtosecond pulses across the electromagnetic spectrum.
The journal of chemical physics, 152(21):214301, and PUBDB-2020-04868.
doi: 10.1063/1.5138641.
- C. W. Nicholson et al.
Role of a higher-dimensional interaction in stabilizing charge density waves in quasi-one-dimensional $NbSe_3$ revealed by angle-resolved photoemission spectroscopy.
Physical review / B, 101(4):045412, and PUBDB-2020-00164.
doi: 10.1103/PhysRevB.101.045412.
- N. Nishiyama et al.
Low temperature heat capacity measurements of $\beta - Si_3N_4$ and $\gamma - Si_3N_4$: Determination of the equilibrium phase boundary between $\beta - Si_3N_4$ and $\gamma - Si_3N_4$.
Journal of the European Ceramic Society, 40(16):6309, and PUBDB-2021-00350.
doi: 10.1016/j.jeurceramsoc.2019.11.025.
- D. A. Obenchain et al.
The low-barrier methyl internal rotation in the rotational spectrum of 3-methylphenylacetylene.
Journal of molecular structure, 1213:128109, and PUBDB-2021-00605.
doi: 10.1016/j.molstruc.2020.128109.
- T. Oelze et al.
THz streak camera performance for single-shot characterization of XUV pulses with complex temporal structures.
Optics express, 28(14):20686, and PUBDB-2020-02610.
doi: 10.1364/OE.393547.
- A. Omlor et al.
Exploration of iron ligand modes in dimeric iron (II) complexes by nuclear resonance scattering.
Hyperfine interactions, 241(1):17, and PUBDB-2020-00675.
doi: 10.1007/s10751-019-1663-y.

- A. Opitz et al.
Understanding electrochemical switchability of perovskite-type exsolution catalysts.
Nature Communications, 11(1):1, and PUBDB-2020-03568.
doi: 10.1038/s41467-020-18563-w.
- J. Orava et al.
Fast-current-heating devices to study in situ phase formation in metallic glasses by using high-energy synchrotron radiation.
Review of scientific instruments, 91(7):073901, and PUBDB-2020-03852.
doi: 10.1063/5.0005732.
- C. Örneke et al.
Operando time- and space-resolved high-energy X-ray diffraction measurement to understand hydrogen-microstructure interactions in duplex stainless steel.
Corrosion science, 175:108899, and PUBDB-2020-05332.
doi: 10.1016/j.corsci.2020.108899.
- E. Ovchinnikova et al.
Forbidden Reflections in TeO_2 in the Vicinity of the $\text{Te } L_1$ Absorption Edge.
Crystals, 10(9):1, and PUBDB-2020-03764, I-20190258.
doi: 10.3390/cryst10090719.
- S. Ovsyannikov et al.
A Room-Temperature Verwey-type Transition in Iron Oxide, Fe_5O_6 .
Angewandte Chemie / International edition, 59(14):5632, and PUBDB-2021-00551.
doi: 10.1002/anie.201914988.
- E. J. Pace et al.
Intense Reactivity in Sulfur–Hydrogen Mixtures at High Pressure under X-ray Irradiation.
The journal of physical chemistry letters, 11(5):1828, and PUBDB-2020-01263.
doi: 10.1021/acs.jpclett.9b03797.
- A. Pakhomova et al.
Polymorphism of feldspars above 10 GPa.
Nature Communications, 11(1):2721, and PUBDB-2020-02171.
doi: 10.1038/s41467-020-16547-4.
- C. Palencia et al.
An in situ and real time study of the formation of CdSe NCs.
Nanoscale, 12(45):22928, and PUBDB-2020-04647.
doi: 10.1039/D0NR05879C.
- V. Pankratovs and A. Kotlov.
Luminescence spectroscopy under synchrotron radiation: From SUPERLUMI to FINESTLUMI.
Nuclear instruments & methods in physics research / B, 474:35, and PUBDB-2020-02821.
doi: 10.1016/j.nimb.2020.04.015.
- S. Pathak et al.
Structural characteristics of HfO_2 under extreme conditions.
Materials chemistry and physics, 255:123633, and PUBDB-2021-01432.
doi: 10.1016/j.matchemphys.2020.123633.
- S. Pathak et al.
Tracking the Ultraviolet-induced Photochemistry of Thiophene during and after Ultrafast Ring Opening.
Nature chemistry, 12(9):795, and PUBDB-2020-03660.
doi: 10.1038/s41557-020-0507-3.
- A. L. D. Paul et al.
Cobalt hyperaccumulation in *Rinorea cf. bengalensis* (Violaceae) from Sabah: accumulation potential and tissue and cellular-level distribution of cobalt.
Plant and soil, -(-):1, and PUBDB-2020-03597.
doi: 10.1007/s11104-020-04629-7.
- M. Paul et al.
Exceptional Substrate Diversity in Oxygenation Reactions Catalyzed by a Bis(μoxo) Copper Complex.
Chemistry - a European journal, 26(34):7556, and PUBDB-2020-05091.
doi: 10.1002/chem.202000664.
- L. X. Paulraj et al.
DNA-Origami-Assisted Flow-Aligned Single-Particle Diffractive Imaging using XFEL Pulses.
Biophysical journal, 118(3):137a, and PUBDB-2020-00695.
doi: 10.1016/j.bpj.2019.11.877.
- L. Pedrelli et al.
Complete phase retrieval of photoelectron wavepackets.
New journal of physics, 22(5):053028 (1, and PUBDB-2021-00478.
doi: 10.1088/1367-2630/ab83d7.
- T. Peixoto et al.
Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators.
npj quantum materials, 5(1):87 (1, and PUBDB-2020-04576.
doi: 10.1038/s41535-020-00288-0.
- C. Pérez et al.
Water Triggers HydrogenBondNetwork Reshaping in the Glycoaldehyde Dimer.
Angewandte Chemie / International edition, 59(22):8401, and PUBDB-2020-02650.
doi: 10.1002/anie.201914888.
- E. Perfetto et al.
Ultrafast Quantum Interference in the Charge Migration of Tryptophan.
The journal of physical chemistry letters, 11(3):891, and PUBDB-2021-00476.
doi: 10.1021/acs.jpclett.9b03517.
- A. Perry-Sassmannshausen et al.
Multiple Photodetachment of Carbon Anions via Single and Double Core-Hole Creation.
Physical review letters, 124:083203, and PUBDB-2020-00903.
doi: 10.1103/PhysRevLett.124.083203.
- I. Pethes et al.
Short range order and topology of $\text{Ge}_x\text{Ga}_x\text{Te}_{100-2x}$ glasses.
Journal of alloys and compounds, 834:155097 (1, and PUBDB-2021-00163.
doi: 10.1016/j.jallcom.2020.155097.

- Y. Petrov et al.
Ruthenium under ultrafast laser excitation: Model and dataset for equation of state, conductivity, and electron-ion coupling.
Data in Brief, 28:104980, and PUBDB-2020-03347.
doi: 10.1016/j.dib.2019.104980.
- D. Petz et al.
Heterogeneity of Graphite Lithiation in StateoftheArt CylindricalType LiIon Cells.
Batteries & supercaps, 4(2):327, and PUBDB-2021-00167.
doi: 10.1002/batt.202000178.
- P. Pinacho Morante, D. Obenchain and M. Schnell.
New findings from old data: A semi-experimental value for the eQq of the nitrogen atom.
The journal of chemical physics, 153(23):234307, and PUBDB-2021-00765.
doi: 10.1063/5.0033071.
- N. Pinotsis et al.
Calcium modulates the domain flexibility and function of an α -actinin similar to the ancestral α -actinin.
Proceedings of the National Academy of Sciences of the United States of America, 117(36):22101, and PUBDB-2021-00574.
doi: 10.1073/pnas.1917269117.
- T. Pohlmann et al.
Cation- and lattice-site-selective magnetic depth profiles of ultrathin Fe_3O_4 (001) films.
Physical review / B, 102(22):220411, and PUBDB-2021-01433.
doi: 10.1103/PhysRevB.102.220411.
- V. V. Popov et al.
Rearrangement in the local, electronic and crystal structure of europium titanates under reduction and oxidation.
Journal of alloys and compounds, 831:154752, and PUBDB-2020-02383.
doi: 10.1016/j.jallcom.2020.154752.
- A. Pramanik et al.
Depth-resolved core level spectroscopy of noncentrosymmetric solid BiPd.
Physical review / B covering condensed matter and materials physics, 101(3):035426, and PUBDB-2020-02214.
doi: 10.1103/PhysRevB.101.035426.
- T. R. Preston et al.
Design and performance characterisation of the HAPG von Hámos Spectrometer at the High Energy Density Instrument of the European XFEL.
Journal of Instrumentation, 15(11):P11033, and PUBDB-2021-00612.
doi: 10.1088/1748-0221/15/11/P11033.
- A. Prihoda et al.
Interface between Water–Solvent Mixtures and a Hydrophobic Surface.
Langmuir, 36(40):12077, and PUBDB-2020-04309.
doi: 10.1021/acs.langmuir.0c02745.
- M. M. Quesada Moreno et al.
London Dispersion and HydrogenBonding Interactions in Bulky Molecules: The Case of Diadamantyl Ether Complexes.
Chemistry - a European journal, 26(47):10817, and PUBDB-2021-00614.
doi: 10.1002/chem.202001444.
- M. K. Rabchinskii et al.
From graphene oxide towards aminated graphene: facile synthesis, its structure and electronic properties.
Scientific reports, 10(1):6902, and PUBDB-2020-04815.
doi: 10.1038/s41598-020-63935-3.
- S. Ramakrishnan et al.
Unusual charge density wave transition and absence of magnetic ordering in $Er_2Ir_3Si_5$.
Physical review / B, 101(6):060101, and PUBDB-2020-00770.
doi: 10.1103/PhysRevB.101.060101.
- M. M. Ramin Moayed et al.
Anisotropic circular photogalvanic effect in colloidal tin sulfide nanosheets.
Nanoscale, 12(11):6256, and PUBDB-2021-00639.
doi: 10.1039/D0NR01189D.
- M. M. Ramin Moayed et al.
Function Follows Form: From Semiconducting to Metallic toward Superconducting PbS Nanowires by Faceting the Crystal.
Advanced functional materials, 2020:1910503, and PUBDB-2020-01319.
doi: 10.1002/adfm.201910503.
- Z. Ren et al.
First stages of plasticity in three-point bent Au nanowires detected by in situ Laue microdiffraction.
Applied physics letters, 116(24):243101, and PUBDB-2021-00627.
doi: 10.1063/5.0012816.
- J. M. Ribeiro et al.
Influence of Nb-doping on the local structure and thermoelectric properties of transparent TiO_2 : Nb thin films.
Journal of alloys and compounds, 838:155561, and PUBDB-2020-02177.
doi: 10.1016/j.jallcom.2020.155561.
- A. Ricci et al.
Intermittent dynamics of antiferromagnetic phase in inhomogeneous iron-based chalcogenide superconductor.
Physical review / B, 101(2):020508, and PUBDB-2021-00527.
doi: 10.1103/PhysRevB.101.020508.
- J. Rodewald et al.
Enhanced magnetization of ultrathin $NiFe_2O_4$ films on $SrTiO_3$ (001) related to cation disorder and anomalous strain.
Physical review materials, 4(6):064404, and PUBDB-2021-00297.
doi: 10.1103/PhysRevMaterials.4.064404.
- J. Rodewald et al.
Real-time monitoring the growth of strained off-stoichiometric $Ni_xFe_{3-x}O_4$ ultrathin films on MgO (001).
Applied physics letters, 117(1):011601, and PUBDB-2021-00294.
doi: 10.1063/5.0013925.

- P. Roenfeldt et al.
A Scandium MOF with an Unprecedented Inorganic Building Unit, Delimiting the Micropore Windows.
Inorganic chemistry, 59(13):8995, and PUBDB-2020-03682.
doi: 10.1021/acs.inorgchem.0c00840.
- B. Roesner et al.
Soft x-ray microscopy with 7 nm resolution.
Optica, 7(11):1602, and PUBDB-2020-04517.
doi: 10.1364/OPTICA.399885.
- W. Roseker et al.
Double-pulse speckle contrast correlations with near Fourier transform limited free-electron laser light using hard split-and-delay.
Scientific reports, 10:5054, and PUBDB-2020-01030.
doi: 10.1038/s41598-020-61926-y.
- T. Rosen et al.
Flow fields control nanostructural organization in semiflexible networks.
Soft matter, 16(23):5439, and PUBDB-2020-04454.
doi: 10.1039/C9SM01975H.
- R. G. Rossi et al.
Sub-cycle mJ-level parametric waveform synthesizer for attosecond science.
Nature photonics, 14(10):629, and PUBDB-2020-03945.
doi: 10.1038/s41566-020-0659-0.
- M. Ruiz Lopez et al.
Wavefront Sensing for Evaluation of Extreme Ultraviolet Microscopy.
Sensors, 20(22):6426 (1, and PUBDB-2020-04389.
doi: 10.3390/s20226426.
- C. Rumancev et al.
X-ray fluorescence analysis of metal distributions in cryogenic biological samples using large-acceptance-angle SDD detection and continuous scanning at the Hard X-ray Micro/Nano-Probe beamline P06 at PETRA III.
Journal of synchrotron radiation, 27(1):60, and PUBDB-2020-00006.
doi: 10.1107/S1600577519014048.
- D. Rupp et al.
Imaging plasma formation in isolated nanoparticles with ultrafast resonant scattering.
Structural dynamics, 7(3):034303, and PUBDB-2020-02432.
doi: 10.1063/4.0000006.
- B. Ruta et al.
Wave-Vector Dependence of the Dynamics in Supercooled Metallic Liquids.
Physical review letters, 125(5):055701, and PUBDB-2021-00573.
doi: 10.1103/PhysRevLett.125.055701.
- S. Sadashivaiah et al.
Light-induced spin transition in the spin-crossover complex FePt2 detected by optical pump -coherent resonant nuclear elastic scattering.
Hyperfine interactions, 241(1):12, and PUBDB-2020-00165.
doi: 10.1007/s10751-019-1673-9.
- P. Saha et al.
Pressure induced lattice expansion and phonon softening in layered ReS₂.
Journal of applied physics, 128(8):085904, and PUBDB-2021-00374.
doi: 10.1063/5.0014347.
- A. K. Samanta et al.
Controlled beams of shock-frozen, isolated, biological and artificial nanoparticles.
Structural dynamics, 7(2):024304, and PUBDB-2020-01398.
doi: 10.1063/4.0000004.
- A. San Jose Mendez et al.
A resistively-heated dynamic diamond anvil cell (RHdDAC) for fast compression x-ray diffraction experiments at high temperatures.
Review of scientific instruments, 91(7):073906, and PUBDB-2020-02760.
doi: 10.1063/5.0007557.
- T. Sato et al.
Femtosecond timing synchronization at megahertz repetition rates for an x-ray free-electron laser.
Optica, 7(6):716, and PUBDB-2020-02373.
doi: 10.1364/OPTICA.396728.
- C. Schlueter et al.
Orbital Hybridization and Magnetic Coupling at Cuprate-Manganite Interfaces Driven by Manganite Doping.
Advanced quantum technologies, 3(6):2000016, and PUBDB-2021-00142.
doi: 10.1002/qute.202000016.
- P. Schmidt et al.
Ultrafast Structural Changes in Chiral Molecules Measured with Free-Electron Lasers.
Journal of physics / Conference Series, 1412:112009, and PUBDB-2021-00239.
doi: 10.1088/1742-6596/1412/11/112009.
- A. Schmitt et al.
Disentangling X-ray dichroism and birefringence via high-purity polarimetry.
Optica, 1, and PUBDB-2020-04918.
doi: 10.3204/PUBDB-2020-04918.
- M. Schoelmerich et al.
Evidence of shock-compressed stishovite above 300 GPa.
Scientific reports, 10(1):10197, and PUBDB-2020-02653.
doi: 10.1038/s41598-020-66340-y.
- A. Schottelius et al.
Crystal growth rates in supercooled atomic liquid mixtures.
Nature materials, 19(5):512, and PUBDB-2020-01628.
doi: 10.1038/s41563-020-0613-z.
- A. Schropp et al.
PtyNAMI: ptychographic nano-analytical microscope.
Journal of applied crystallography, 53(4):957, and PUBDB-2020-02804.
doi: 10.1107/S1600576720008420.

- F. Schulz et al.
Plasmonic Supercrystals with a Layered Structure Studied by a Combined TEM-SAXS-XCCA Approach.
Advanced materials interfaces, 7(19):2000919, and PUBDB-2020-03023.
doi: 10.1002/admi.202000919.
- F. Schulz et al.
Structural order in plasmonic superlattices.
Nature Communications, 11:3821, and PUBDB-2020-02870.
doi: 10.1038/s41467-020-17632-4.
- L. Schwob et al.
Site-Selective Dissociation upon Sulfur L-Edge X-ray Absorption in a Gas-Phase Protonated Peptide.
The journal of physical chemistry letters, 11(4):1215, and PUBDB-2020-02857.
doi: 10.1021/acs.jpcllett.0c00041.
- J. A. Sears et al.
Ferromagnetic Kitaev interaction and the origin of large magnetic anisotropy in α -RuCl₃.
Nature physics, 16:837, and PUBDB-2020-01472.
doi: 10.1038/s41567-020-0874-0.
- V. Sedov et al.
Diamond composite with embedded YAG:Ce nanoparticles as a source of fast X-ray luminescence in the visible and near-IR range.
Carbon, 174:52, and PUBDB-2020-04997.
doi: 10.1016/j.carbon.2020.12.020.
- F. Seiboth et al.
Hard X-ray wavefront correction via refractive phase plates made by additive and subtractive fabrication techniques.
Journal of synchrotron radiation, 27(5):1121, and PUBDB-2020-02738.
doi: 10.1107/S1600577520007900.
- M. Seidel et al.
Hybridizing Multi-pass and Multi-plate Bulk Compression.
Europhoton 2020, Prague (Czech Republic), 30 Aug 2020 - 4 Sep 2020.
The European physical journal / Web of Conferences, vol. 243:21001, and PUBDB-2020-03917.
EDP Sciences, Les Ulis.
doi: 10.1051/epjconf/202024321001.
- M. Seifert et al.
Evaluation of the Weighted Mean X-ray Energy for an Imaging System Via Propagation-Based Phase-Contrast Imaging.
Journal of imaging, 6(7):63 (1, and PUBDB-2020-04887.
doi: 10.3390/jimaging6070063.
- G. Selikhanov et al.
Novel approaches for the lipid sponge phase crystallization of the Rhodobacter sphaeroides photosynthetic reaction center.
IUCrJ, 7(6):1084, and PUBDB-2021-00587.
doi: 10.1107/S2052252520012142.
- A. Semerikova et al.
FaceCentered Cubic Platinum Hydride and Phase Diagram of PtH.
European journal of inorganic chemistry, 2020(48):4532, and PUBDB-2021-00369.
doi: 10.1002/ejic.202000849.
- M. L. Shelby et al.
A fixed-target platform for serial femtosecond crystallography in a hydrated environment.
IUCrJ, 7(1):1, and PUBDB-2019-05316.
doi: 10.1107/S2052252519014003.
- X. Sheng et al.
Hierarchical micro-reactor as electrodes for water splitting by metal rod tipped carbon nanocapsule self-assembly in carbonized wood.
Applied catalysis / B, 264:118536, and PUBDB-2020-04463.
doi: 10.1016/j.apcatb.2019.118536.
- M. Shipilin et al.
Erratum to: Fe Oxides on Ag Surfaces: Structure and Reactivity.
Topics in catalysis, 63(11-14):1374, and PUBDB-2021-00213.
doi: 10.1007/s11244-017-0811-3.
- A. V. Shokurov et al.
Long-Sought Redox Isomerization of the Europium(III/II) Complex Achieved by Molecular Reorientation at the Interface.
Langmuir, 36(6):1423, and PUBDB-2020-00906.
doi: 10.1021/acs.langmuir.9b03403.
- M. Shukla et al.
Robust spin-ice freezing in magnetically frustrated Ho₂Ge_xTi_{2-x}O₇ pyrochlore.
Journal of physics / Condensed matter Condensed matter, 32(46):465804, and PUBDB-2020-03118.
doi: 10.1088/1361-648X/abace1.
- J. A. Signore et al.
Microwave spectra of a potential four-fold internal rotor, phenylsulfur pentafluoride.
Journal of molecular structure, 1214:128130, and PUBDB-2021-00519.
doi: 10.1016/j.molstruc.2020.128130.
- D. Sikora et al.
Phase Drift Compensating RF Link for Femtosecond Synchronization of E-XFEL.
IEEE transactions on nuclear science, 67(9):2136, and PUBDB-2018-03737, arXiv:1806.09197.
doi: 10.1109/TNS.2020.2966018.
- V. Silva de Oliveira et al.
Intensity noise optimization of a mid-infrared frequency comb difference-frequency generation source.
Optics letters, 45(7):1914, and PUBDB-2020-05289.
doi: 10.1364/OL.391195.
- M. Silva et al.
Transition metal-doped MgO nanoparticles for nutrient recycling: an alternate Mg source for struvite synthesis from wastewater.
Environmental science / Nano, 7(11):3482, and PUBDB-

2021-00524.

doi: 10.1039/D0EN00660B.

N. K. Singh, F. Kärtner and I. Erich.

Towards CW modelocked laser on chip – a large mode area and NLI for stretched pulse mode locking.

Optics express, 28(15):22562, and PUBDB-2020-04719.

doi: 10.1364/OE.396703.

N. Singh et al.

Nonlinear silicon photonics on CMOS compatible tellurium oxide.

Photonics research, 8(12):1904, and PUBDB-2020-04052.

doi: 10.1364/PRJ.400057.

N. Singh et al.

Silicon Photonics Optical Frequency Synthesizer.

Laser & photonics reviews, 14(7):1900449 (1, and PUBDB-2020-04722.

doi: 10.1002/lpor.201900449.

M. T. Sirtl et al.

Optoelectronic Properties of $Cs_2AgBiBr_6$ Thin Films: The Influence of Precursor Stoichiometry.

ACS applied energy materials, 3(12):11597, and PUBDB-2021-00957.

doi: 10.1021/acsaem.0c01308.

E. Sobolev et al.

Megahertz single-particle imaging at the European XFEL.

Communications Physics, 3(1):97, and PUBDB-2020-02231.

doi: 10.1038/s42005-020-0362-y.

L. Song et al.

In Situ Study of Sputtering Nanometer-Thick Gold Films onto 100-nm-Thick Spiro-OMeTAD Films: Implications for Perovskite Solar Cells.

ACS applied nano materials, 3(6):5987, and PUBDB-2020-04457.

doi: 10.1021/acsanm.0c01147.

C. Sow et al.

Unraveling the Spatial Distribution of Catalytic Non-Cubic Au Phases in a Bipyramidal Microcrystallite by X-ray Diffraction Microscopy.

ACS nano, 14(8):9456, and PUBDB-2020-02338.

doi: 10.1021/acsnano.0c02031.

G. Spiekermann et al.

A portable on-axis laser-heating system for near-90° X-ray spectroscopy: application to ferroperricline and iron silicide.

Journal of synchrotron radiation, 27(2):1, and PUBDB-2020-00771.

doi: 10.1107/S1600577519017041.

K. Stachnik et al.

Multimodal X-ray imaging of nanocontainer-treated macrophages and calcium distribution in the perilacunar bone matrix.

Scientific reports, 10(1):1784, and PUBDB-2020-00275.

doi: 10.1038/s41598-020-58318-7.

P. Stahl et al.

Laboratory blueprints for interstellar searches of aromatic chiral molecules: rotational signatures of styrene oxide.

Physical chemistry, chemical physics, 22(37):21474, and PUBDB-2020-03924.

doi: 10.1039/D0CP03523H.

Q. Stahl et al.

Collapse of layer dimerization in the photo-induced hidden state of $1T - TaS_2$.

Nature Communications, 11(1):1247, and PUBDB-2020-00984.

doi: 10.1038/s41467-020-15079-1.

J. Stellhorn et al.

Local Structure of the Impurity Site in Nd:LaF₃ by XRay Fluorescence Holography.

Physica status solidi / B, 257(11):2000310, and PUBDB-2020-03561.

doi: 10.1002/pssb.202000310.

J. Stellhorn et al.

Structure of amorphous Cu₂GeTe₃ and the implications for its phase-change properties.

Physical review / B, 101(21):214110, and PUBDB-2021-00521.

doi: 10.1103/PhysRevB.101.214110.

T. Stolar et al.

DNA-specific selectivity in pairing of model nucleobases in the solid state.

Chemical communications, 56(88):13524, and PUBDB-2020-04350.

doi: 10.1039/D0CC03491F.

G. Storeck et al.

Structural dynamics of incommensurate charge-density waves tracked by ultrafast low-energy electron diffraction.

Structural dynamics, 7(3):034304, and PUBDB-2020-02445.

doi: 10.1063/4.0000018.

M. E. Stuckelberger et al.

Effects of X-rays on Perovskite Solar Cells.

The journal of physical chemistry / C, 124(33):17949, and PUBDB-2020-04406.

doi: 10.1021/acs.jpcc.0c04645.

M. K. G. Subramanian, R. Santra and R. Welsch.

Choice of the electronic basis for field-induced surface hopping.

Physical review / A covering atomic, molecular, and optical physics and quantum information, 102(1):1, and PUBDB-2020-02845.

doi: 10.1103/PhysRevA.102.013107.

M. K. G. Subramanian et al.

Field-enabled quantum interference in atomic Auger decay.

Physical review / A, 102(2):022807, and PUBDB-2020-03000.

doi: 10.1103/PhysRevA.102.022807.

T. Szyjka et al.

Enhanced Ferroelectric Polarization in TiN/HfO₂/TiN Capacitors by Interface Design.

ACS applied electronic materials, 2(10):3152, and PUBDB-2020-04353.

doi: 10.1021/acsaem.0c00503.

- T. Tanikawa et al.
Volt-per-Ångström terahertz fields from X-ray free-electron lasers.
Journal of synchrotron radiation, 27(3):796, and PUBDB-2020-01740.
 doi: 10.1107/S1600577520004245.
- H. Tatsuno et al.
Hot Branching Dynamics in a LightHarvesting Iron Carbene Complex Revealed by Ultrafast Xray Emission Spectroscopy.
Angewandte Chemie / International edition, 59(1):364, and PUBDB-2021-00416.
 doi: 10.1002/anie.201908065.
- S. Techert, S. Thekku Veedu and S. Bari.
Development of Ultrafast X-ray Free Electron Laser Tools in (Bio)Chemical Research.
Nanoscale Photonic Imaging / Salditt, Tim (Editor) ; Cham : Springer International Publishing, 2020, Chapter 17 ; ISSN: 0303-4216=1437-0859 ; ISBN: 978-3-030-34412-2=978-3-030-34413-9 ; doi:10.1007/978-3-030-34413-9.
 Springer International Publishing, Cham.
 doi: 10.1007/978-3-030-34413-9_17.
- L. V. Thesing et al.
The Effect of Nuclear-Quadrupole Coupling in the Laser-Induced Alignment of Molecules.
The journal of physical chemistry / A A, Molecules, spectroscopy, kinetics, environment & general theory, 124(11):2225, and PUBDB-2020-01318.
 doi: 10.1021/acs.jpca.9b11433.
- J. Thien et al.
Effects of Post-deposition Annealing on Epitaxial CoO/Fe₃O₄ Bilayers on SrTiO₃(001) and Formation of Thin High-Quality Cobalt Ferrite-like Films.
The journal of physical chemistry / C, 124(43):23895, and PUBDB-2020-04260.
 doi: 10.1021/acs.jpcc.0c05503.
- P. Thirathipviwat et al.
Compositional complexity dependence of dislocation density and mechanical properties in high entropy alloy systems.
Progress in natural science: materials international, 30(4):545, and PUBDB-2021-00562.
 doi: 10.1016/j.pnsc.2020.07.002.
- S. Thompson et al.
Compression experiments to 126 GPa and 2500 K and thermal equation of state of Fe₃S: Implications for sulphur in the Earth's core.
Earth and planetary science letters, 534:116080, and PUBDB-2020-00427.
 doi: 10.1016/j.epsl.2020.116080.
- D. S. Tikhonov et al.
Approaching black-box calculations of pump-probe fragmentation dynamics of polyatomic molecules.
Zeitschrift für physikalische Chemie, 0(0):1, and PUBDB-2020-02652.
 doi: 10.1515/zpch-2020-0009.
- V. Tkachenko et al.
Time-resolved investigation of the optical phase change as a potential diagnostics tool for extreme-ultraviolet free-electron-laser pump and optical probe experiments.
Optics letters, 45(1):33, and PUBDB-2019-05331.
 doi: 10.1364/OL.45.000033.
- M. Togawa et al.
Observation of strong two-electron–one-photon transitions in few-electron ions.
Physical review / A, 102(5):052831 (1, and PUBDB-2020-04615.
 doi: 10.1103/PhysRevA.102.052831.
- A. Trabattoni et al.
Setting the photoelectron clock through molecular alignment.
Nature Communications, 11(1):2546, and PUBDB-2020-01595.
 doi: 10.1038/s41467-020-16270-0.
- F. Trost, K. Ayyer and H. N. Chapman.
Photon statistics and signal to noise ratio for incoherent diffraction imaging.
New journal of physics, 22:1, and PUBDB-2020-02867.
 doi: 10.1088/1367-2630/aba85c.
- J.-C. Tseng et al.
Deformations of Ti-6Al-4V additive-manufacturing-induced isotropic and anisotropic columnar structures: In situ measurements and underlying mechanisms.
Additive manufacturing, 35:101322, and PUBDB-2020-02396.
 doi: 10.1016/j.addma.2020.101322.
- A. Tsyganok et al.
Operando X-ray Absorption Spectroscopy (XAS) Observation of Photoinduced Oxidation in FeNi (Oxy)hydroxide Overlayers on Hematite (α -Fe₂O₃) Photoanodes for Solar Water Splitting.
Langmuir, 36(39):11564, and PUBDB-2020-04320.
 doi: 10.1021/acs.langmuir.0c02065.
- S. Usenko et al.
Auger Electron Wave Packet Interferometry on Extreme Timescales with Coherent Soft xX-Rays.
Journal of physics / B, 53(24):244008, and PUBDB-2020-04259.
 doi: 10.1088/1361-6455/abc661.
- A. Vamvakeros et al.
DLSR: a solution to the parallax artefact in X-ray diffraction computed tomography data.
Journal of applied crystallography, 53(6):11, and PUBDB-2020-04540.
 doi: 10.1107/S1600576720013576.
- L. S. I. Veiga et al.
Correlated electron metal properties of the honeycomb ruthenate Na₂RuO₃.
Physical review materials, 4(9):094202 (1, and PUBDB-2020-03683.
 doi: 10.1103/PhysRevMaterials.4.094202.

- L. S. I. Veiga et al.
Possible quantum fluctuations in the vicinity of the quantum critical point of $(\text{Sr}, \text{Ca})_3\text{Ir}_4\text{Sn}_{13}$ revealed by high-energy x-ray diffraction.
Physical review / B covering condensed matter and materials physics, 101(10):104511, and PUBDB-2020-01144.
doi: 10.1103/PhysRevB.101.104511.
- S. Vinko et al.
Time-Resolved XUV Opacity Measurements of Warm Dense Aluminum.
Physical review letters, 124(22):225002, and PUBDB-2020-02737.
doi: 10.1103/PhysRevLett.124.225002.
- C. Vogel et al.
Chromium (VI) in phosphorus fertilizers determined with the diffusive gradients in thin-films (DGT) technique.
Environmental science and pollution research, 27(19):24320, and PUBDB-2020-02388.
doi: 10.1007/s11356-020-08761-w.
- T. Voumard et al.
AI-enabled real-time dual-comb molecular fingerprint imaging.
Optics letters, 45(24):6583, and PUBDB-2020-04628.
doi: 10.1364/OL.410762.
- V. Vozda et al.
Characterization of megahertz X-ray laser beams by multishot desorption imprints in PMMA.
Optics express, 28(18):25664, and PUBDB-2020-03111.
doi: 10.1364/OE.396755.
- M. Wagstaffe, H. Noei and A. Stierle.
Elucidating the Defect-Induced Changes in the Photocatalytic Activity of TiO_2 .
The journal of physical chemistry / C, 124(23):12539, and PUBDB-2020-02336.
doi: 10.1021/acs.jpcc.0c02809.
- M. Wagstaffe et al.
Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst.
ACS catalysis, 10:13650, and PUBDB-2020-04515.
doi: 10.1021/acscatal.0c04098.
- P. Walter et al.
In situ X-ray measurements over large Q-space to study the evolution of oxide thin films prepared by RF sputter deposition.
Journal of materials science, -:1, and PUBDB-2020-03651.
doi: 10.1007/s10853-020-05337-4.
- F. Wang et al.
A StimulusResponsive Zinc–Iodine Battery with Smart Overcharge SelfProtection Function.
Advanced materials, 32(16):2000287, and PUBDB-2020-02507.
doi: 10.1002/adma.202000287.
- H.-Y. Wang et al.
Time-resolved observation of transient precursor state of CO on Ru(0001) using carbon K-edge spectroscopy.
Physical chemistry, chemical physics, 22(5):2677, and PUBDB-2021-00143.
doi: 10.1039/C9CP03677F.
- J. Wang et al.
Spatial separation of 2-propanol monomer and its ionization-fragmentation pathways.
Journal of molecular structure, 1208:127863, and PUBDB-2020-00986.
doi: 10.1016/j.molstruc.2020.127863.
- J. Wang et al.
Spatial Separation of the Conformers of Methyl Vinyl Ketone.
The journal of physical chemistry / A, 124(40):8341, and PUBDB-2020-03736.
doi: 10.1021/acs.jpca.0c05893.
- J. Wang et al.
Insights into P2-Type Layered Positive Electrodes for Sodium Batteries: From Long- to Short-Range Order.
ACS applied materials & interfaces, 12(4):5017, and PUBDB-2020-00772.
doi: 10.1021/acsami.9b18109.
- L. Wang et al.
Full 3D + 1 modeling of tilted-pulse-front setups for single-cycle terahertz generation.
Journal of the Optical Society of America / B Optical physics B, 37(4):1000, and PUBDB-2020-00677.
doi: 10.1364/JOSAB.379142.
- X. D. Wang et al.
Atomic dynamics transition in a Cu-Zr-Al metallic glass.
Scripta materialia, 186:268, and PUBDB-2020-04464.
doi: 10.1016/j.scriptamat.2020.05.002.
- Y. Wang et al.
Novel Hydrogen Clathrate Hydrate.
Physical review letters, 125(25):255702, and PUBDB-2021-01434.
doi: 10.1103/PhysRevLett.125.255702.
- V. Wanie et al.
Control of strong-field ionization in ferroelectric lithium niobate: Role of the spontaneous polarization.
Physical review / B, 101(18):184103 (1, and PUBDB-2020-03701.
doi: 10.1103/PhysRevB.101.184103.
- V. Wanie et al.
Laser polarization dependence of strong-field ionization in lithium niobate.
Physical review / B, 101(21):214311 (1, and PUBDB-2020-03702.
doi: 10.1103/PhysRevB.101.214311.
- S. Waseem Abbasi et al.
Synthesis, Characterization and Biological Studies of Ether-Based Ferrocenyl Amides and their Organic Analogues.
Crystals, 10(6):480, and PUBDB-2020-02254.
doi: 10.3390/cryst10060480.
- T. Weber et al.
Extraordinary Stability of IrO_2 (110) Ultrathin Films Supported on TiO_2 (110) under Cathodic Polarization.
The journal of physical chemistry letters, 11(21):9057, and PUBDB-2020-04506.
doi: 10.1021/acs.jpcllett.0c02730.

T. Weber et al.

In situ studies of the cathodic stability of single-crystalline $\text{IrO}_2(110)$ ultrathin films supported on $\text{RuO}_2(110)/\text{Ru}(0001)$ in an acidic environment.

Physical chemistry, chemical physics, 22(40):22956, and PUBDB-2020-04508.

doi: 10.1039/D0CP03811C.

M. Wenskat et al.

Nitrogen Infusion R & D at DESY - A Case Study on Cavity Cut-Outs.

Superconductor science and technology, 33(11):115017, and PUBDB-2020-02826.

doi: 10.1088/1361-6668/abb58c.

M. T. Wharmby et al.

Influence of Thermal and Mechanical Stimuli on the Behavior of Al-CAU-13 Metal-Organic Framework.

Nanomaterials, 10(9):1698, and PUBDB-2021-00362.

doi: 10.3390/nano10091698.

K. S. Wienhold et al.

Following in Operando the Structure Evolution Induced Degradation in Printed Organic Solar Cells with Nonfullerene Small Molecule Acceptor.

Solar RRL, 4(9):2000251 (1, and PUBDB-2020-04315.

doi: 10.1002/solr.202000251.

K. S. Wienhold et al.

Following In Situ the Evolution of Morphology and Optical Properties during Printing of Thin Films for Application in Non-Fullerene Acceptor Based Organic Solar Cells.

ACS applied materials & interfaces, 12(36):40381, and PUBDB-2020-04313, P03.

doi: 10.1021/acsami.0c12390.

K. S. Wienhold et al.

In Situ Printing: Insights into the Morphology Formation and Optical Property Evolution of Slot-Die-Coated Active Layers Containing Low Bandgap Polymer Donor and Nonfullerene Small Molecule Acceptor.

Solar RRL, 4(7):2000086 (1, and PUBDB-2020-04316.

doi: 10.1002/solr.202000086.

T. Wildi et al.

Photo-acoustic dual-frequency comb spectroscopy.

Nature Communications, 11(1):4164, and PUBDB-2020-03631.

doi: 10.1038/s41467-020-17908-9.

J. Wingert et al.

Direct time-domain determination of electron-phonon coupling strengths in chromium.

Physical review / B covering condensed matter and materials physics, 102(4):041101, and PUBDB-2020-02538.

doi: 10.1103/PhysRevB.102.041101.

A. Wituschek et al.

High-gain harmonic generation with temporally overlapping seed pulses and application to ultrafast spectroscopy.

Optics express, 28(20):29976, and PUBDB-2021-00516.

doi: 10.1364/OE.401249.

A. Wituschek et al.

Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses.

Nature Communications, 11(1):883, and PUBDB-2020-01741.

doi: 10.1038/s41467-020-14721-2.

T. Wodzinski et al.

Single-shot transverse coherence measurements with Young's double pinholes at FLASH2.

Journal of physics communications, 4:075014, and PUBDB-2020-02774.

doi: 10.1088/2399-6528/aba3b0.

C. Wölk et al.

Phase Diagram for a LysylPhosphatidylglycerol Analogue in Biomimetic Mixed Monolayers with Phosphatidylglycerol: Insights into the Tunable Properties of Bacterial Membranes.

ChemPhysChem, 21(8):702, and PUBDB-2020-01615.

doi: 10.1002/cphc.202000026.

S. Wurster et al.

Microstructural Changes Influencing the Magnetoresistive Behavior of Bulk Nanocrystalline Materials.

Applied Sciences, 10(15):5094: 1, and PUBDB-2020-02875.

doi: 10.3390/app10155094.

R. P. Xian et al.

An open-source, end-to-end workflow for multidimensional photoemission spectroscopy.

Scientific data, 7(1):442, and PUBDB-2020-05223.

doi: 10.1038/s41597-020-00769-8.

B. Xue et al.

Fully stabilized multi-TW optical waveform synthesizer: Toward gigawatt isolated attosecond pulses.

Science advances, 6(16):eaay2802, and PUBDB-2021-00466.

doi: 10.1126/sciadv.aay2802.

D. Yang et al.

In Situ Studies of Solvent Additive Effects on the Morphology Development during Printing of Bulk Heterojunction Films for Organic Solar Cells.

Small methods, 4(9):2000418, and PUBDB-2020-04451.

doi: 10.1002/smt.202000418.

L. X. Yang et al.

Bypassing the Structural Bottleneck in the Ultrafast Melting of Electronic Order.

Physical review letters, 125(26):266402 (1, and PUBDB-2021-00187.

doi: 10.1103/PhysRevLett.125.266402.

X. Yang et al.

Tomographic reconstruction with a generative adversarial network.

Journal of synchrotron radiation, 27(2):486, and PUBDB-2020-01013.

doi: 10.1107/S1600577520000831.

Y. Yang et al.

Light phase detection with on-chip petahertz electronic networks.

Nature Communications, 11(1):3407, and PUBDB-2021-00393.

doi: 10.1038/s41467-020-17250-0.

Z. Yao et al.

Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells.

Journal of the American Chemical Society, 142(41):17681, and PUBDB-2021-00600.

doi: 10.1021/jacs.0c08352.

S. Yin et al.

Key Factor Study for Amphiphilic Block Copolymer Templated Mesoporous SnO₂ Thin Film Synthesis: Influence of Solvent and Catalyst.

Advanced materials interfaces, 7(18):2001002, and PUBDB-2020-04455.

doi: 10.1002/admi.202001002.

R. Zahoor et al.

A numerical study on the influence of liquid properties on gas-focused micro-jets.

Progress in computational fluid dynamics, 20(2):71, and PUBDB-2021-00389.

doi: 10.1504/PCFD.2020.106407.

E. Zapolnova et al.

XUV-driven plasma switch for THz: new spatio-temporal overlap tool for XUV-THz pump-probe experiments at FELs.

Journal of synchrotron radiation, 27(1):11, and PUBDB-2021-00234.

doi: 10.1107/S1600577519014164.

E. Zemlyanushin et al.

Probing the Effect of Titanium Substitution on the Sodium Storage in Na₃Ni₂BiO₆ Honeycomb-Type Structure.

Energies, 13(24):6498 (1, and PUBDB-2020-04904.

doi: 10.3390/en13246498.

J. Zhang et al.

High temperature superelasticity realized in equiatomic Ti-Ni conventional shape memory alloy by severe cold rolling.

Materials and design, 193:108875, and PUBDB-2020-02614.

doi: 10.1016/j.matdes.2020.108875.

Y. Zhang et al.

High-power pre-chirp managed amplification of circularly polarized pulses using high-dispersion chirped mirrors as a compressor.

OSA continuum, 3(7):1988, and PUBDB-2021-00424.

doi: 10.1364/OSAC.392981.

Y. Zhang et al.

Coherent modulation of the electron temperature and electron-phonon couplings in a 2D material.

Proceedings of the National Academy of Sciences of the United States of America, 117(16):8788, and PUBDB-2020-02215.

doi: 10.1073/pnas.1917341117.

Y. Zhang et al.

Molecular to Macroscale Energy Absorption Mechanisms in Biological Body Armour Illuminated by Scanning X-ray Diffraction with In Situ Compression.

ACS nano, 14(12):16535, and PUBDB-2020-04578.

doi: 10.1021/acsnano.0c02879.

Z. Zhang et al.

Partitioning of Ce, as a simulant for Pu, in a multiphase ceramic nuclear waste form.

Journal of the American Ceramic Society, 103(10):5515, and PUBDB-2021-00515.

doi: 10.1111/jace.17277.

C. Zhao et al.

Constructing NaIon Cathodes via AlkaliSite Substitution.

Advanced functional materials, 30(17):1910840, and PUBDB-2020-02384.

doi: 10.1002/adfm.201910840.

H. Zhao et al.

Hot HydrocarbonSolvent SlotDie Coating Enables HighEfficiency Organic Solar Cells with TemperatureDependent Aggregation Behavior.

Advanced materials, 32(39):2002302 (1, and PUBDB-2020-04365.

doi: 10.1002/adma.202002302.

M. Zhuk et al.

On-Chip TaO_x-Based Non-volatile Resistive Memory for in vitro Neurointerfaces.

Frontiers in neuroscience, 14:94, and PUBDB-2020-02359.

doi: 10.3389/fnins.2020.00094.

C. Zito et al.

Low-Temperature Carbon Dioxide Gas Sensor Based on Yolk-Shell Ceria Nanospheres.

ACS applied materials & interfaces, 12(15):17745, and PUBDB-2020-01326.

doi: 10.1021/acsaami.0c01641.

J. Zook et al.

XFEL and NMR Structures of Francisella Lipoprotein Reveal Conformational Space of Drug Target against Tularemia.

Structure, 28(5):540, and PUBDB-2020-04001.

doi: 10.1016/j.str.2020.02.005.

Y. Zou et al.

Sodium Dodecylbenzene Sulfonate Interface Modification of Methylammonium Lead Iodide for Surface Passivation of Perovskite Solar Cells.

ACS applied materials & interfaces, 12(47):52643, and PUBDB-2021-00959.

doi: 10.1021/acsaami.0c14732.

Dissertationen

D. Anielski.

Untersuchung der Photoelektronen-Winkelverteilungen von ausgerichteten Molekülen in der Gasphase.

Universität Hamburg, Hamburg, 2020.

- B. Arenas.
High-resolution broadband rotational spectroscopy and electrical discharge experiments of astrochemically relevant molecules.
University of Hamburg, 2020.
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Načrtovanje de novo proteinskega konformacijskega stikala na osnovi motiva ovite vijačnice.
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Novel ultrafast fiber laser sources utilizing fiber nonlinearities.
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Exciton Dynamics in Molecular Heterojunctions.
Universita degli Studi di Trieste, 2020.
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Adsorption of Carboxylic Acids on Magnetite Single Crystal Surfaces.
Universität Hamburg, Hamburg, 2020.
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Niobium Near Surface Composition Relevant for Superconducting Radio-Frequency Cavities.
Universität Hamburg, Hamburg, 2020.
- K. C. Dey.
INVESTIGATION ON SOME ANTIFERROELECTRIC LIQUID CRYSTALS AND THEIR MIXTURES.
University of North Bengal, 2020.
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Biophysical and structural characterization of the interaction of the circadian transcription factor BMAL1 with its coactivator CBP.
Johannes Gutenberg University Mainz, 2020.
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Structural characterisation of peroxisomal import receptor complexes.
Universitätsklinikum Hamburg-Eppendorf, 2020.
- J. Gollwitzer, G. Meier and R. Roehlsberger.
Magnon-Photon Interactions: From X-ray Mapping of Standing Spin Waves to Interference in Cavity Electromagnonics.
University of Hamburg, 2020.
- D. Goswami.
STUDIES ON SOME BIPHENYL BENZOATEBASED CHIRAL LIQUID CRYSTALCOMPOUNDS.
University of northbengal, 2020.
- V. Grattoni.
Advanced Seeding Methods for Generation of Fully-Coherent Ultra-Short Soft X-Ray Pulses.
University of Hamburg, 2020.
- K. Hauschildt.
Mikrostrukturentwicklung während des TLP-Lötprozesses in γ -TiAl-Legierungen: In situ Experimente mit hochenergetischer Röntgenbeugung.
Christian-Albrechts-Universität zu Kiel, 2020.
- J. Jakob.
Quantitative analysis of in situ time-resolved RHEED during growth of self-catalysed GaAs nanowires.
Karlsruhe Institute of Technology, 2020.
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Generation and control of ultrafast 10 μ m laser pulses for driving chemical dynamics.
University of Hamburg, München, 2020.
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Disentangling the photophysics of ionized biomolecules in microsolvated environments.
University of Hamburg, Hamburg, 2020.
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The structure of biocrystals of DPS-DNA according to electron tomography.
Shubnikow Institute of Crystallography, Moscow, 2020.
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Structure and Function of a guarded Arabidopsis Immune Signaling Ubiquitin Ligase.
University of Hamburg, 2020.
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Studying chiral molecules with broadband microwave spectroscopy.
Universität Hamburg, Hamburg, 2020.
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Processes, microstructure, and mechanical properties of cold-rolled medium-Mn steel.
RWTH Aachen, Aachen, 2020.
- N. Mukharamova.
Mesoscopic materials studied with advanced X-ray scattering methods.
University of Hamburg, Hamburg, 2020.
- T. Oelze.
Untersuchung der photoinduzierten Dynamik in Clustern sowie Pulslängenbestimmung am FEL mittels THz-Lichtfeld-Streaking.
Technische Universität Berlin, 2020.
- S. Ramakrishnan.
Charge-density-wave ordering in three-dimensional metallic compounds.
University of Bayreuth, Bayreuth, 2020.
- S. Rohl.
Elektronenspektroskopische Untersuchungen der induzierten Spinübergänge von Eisen(II)-Komplexverbindungen auf metallischen, magnetischen und halbleitenden Oberflächen.
University of Kiel, 2020.
- M. Sauppe.
Zeitaufgelöste Dynamik von Clustern in intensiven extrem ultravioletten Doppelpulsen ; Time-resolved dynamics of clusters in intense extreme ultraviolet double-pulses.
Technische Universität Berlin, 2020.
- K. Sentker.
Self-assembly of confined liquid crystals: from nanoscale physics to designing photonic metamaterials.
Hamburg University of Technology, 2020.

- N. Skawinska.
Allosteric regulation of human tryptophan hydroxylase isoform 2 (hTPH2).
Technical University of Denmark, 2020.
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3D Multimodal X-ray microscopy of biological specimens.
Universität Hamburg, Hamburg, 2020.
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Alignment and Orientation of Complex Molecules.
University of Hamburg, 2020.
- A. Tolstikova.
Development of diffraction analysis methods for serial crystallography.
University of Hamburg, 2020.
- L. Varvarezos.
Fast and Ultrafast Multiphoton-Multicolour Ionization and Spectroscopy of Small Quantum Systems.
Dublin City University; Military University of Technology, Warsaw, 2020.
- V. Vozda.
Interaction of short-wavelength laser pulses with matter on various time scales.
Institute of Physics of Charles University, Prague, 2020.
- S. Walter.
Novel THz-streak Experiment for Time Resolved Measurement of Ultrafast Inner-and Interatomic Coulombic Decays.
University of Hamburg, 2020.
- L. Wang.
Modeling and Numerical Studies of Laser-Based Terahertz Generation.
University of Hamburg, 2020.
- J. Wiese.
Strong-field photoelectron imaging of complex molecules.
University of Hamburg, Hamburg, 2020.
- S. Willing.
Oblique-incidence deposition of ferromagnetic thin films and their application in magnetoresistive sensors.
University of Hamburg, 2020.
- E. Zapolnova.
Pump-probe experiments, driven by high-field THz pulses, shaped by double electron bunches at FLASH.
Universität Hamburg, Hamburg, 2020.

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S. Ackermann et al.

Novel Method for the Generation of Stable Radiation from Free-Electron Lasers at High Repetition Rates.

Physical review accelerators and beams, 23(7):071302, and PUBDB-2020-02865.

doi: 10.1103/PhysRevAccelBeams.23.071302.

J. Amacker et al.

Higgs self-coupling measurements using deep learning in the $b\bar{b}b\bar{b}$ final state.

Journal of high energy physics, 12(12):115, and PUBDB-2021-00149, arXiv:2004.04240. IPPP/20/11.

doi: 10.1007/JHEP12(2020)115.

R. W. Assmann et al.

EuPRAXIA Conceptual Design Report.

European physical journal special topics, 229(24):3675, and PUBDB-2020-03112.

doi: 10.1140/epjst/e2020-000127-8.

P. Balla et al.

Postcompression of picosecond pulses into the few-cycle regime.

Optics letters, 45(9):2572, and PUBDB-2020-00712.

doi: 10.1364/OL.388665.

S. K. Barber et al.

A Compact, High Resolution Energy, and Emittance Diagnostic for Electron Beams Using Active Plasma Lenses.

Applied physics letters, 116(23):234108 (1, and PUBDB-2020-04748.

doi: 10.1063/5.0005114.

A. Bellandi et al.

Results on FPGA-Based High-Power Tube Amplifier Linearization at DESY.

IEEE transactions on nuclear science, 67(5):762, and PUBDB-2020-04936.

doi: 10.1109/TNS.2020.2980929.

C. Benedetti et al.

Corrigendum: An Accurate and Efficient Laser-Envelope Solver for the Modeling of Laser-Plasma Accelerators.

Plasma physics and controlled fusion, 62(8):089501, and PUBDB-2020-04744.

doi: 10.1088/1361-6587/ab9a63.

C. Benedetti et al.

High-Quality Positron Acceleration in Beam-Driven Plasma Accelerators.

Physical review accelerators and beams, 23(12):121301 (1, and PUBDB-2020-05003.

doi: 10.1103/PhysRevAccelBeams.23.121301.

T. Bisanz et al.

EUTelescope: A modular reconstruction framework for beam telescope data.

Journal of Instrumentation, 15(09):P09020, and PUBDB-2020-04555, arXiv:2011.10356.

doi: 10.1088/1748-0221/15/09/P09020.

T. Brümmer et al.

Design study for a compact laser-driven source for medical x-ray fluorescence imaging.

Physical review accelerators and beams, 23(3):031601 (1, and PUBDB-2020-05317.

doi: 10.1103/PhysRevAccelBeams.23.031601.

Y. Chen, I. Zagorodnov and M. Dohlus.

Beam Dynamics of Realistic Bunches at the Injector Section of the European X-Ray Free-Electron Laser.

Physical review accelerators and beams, 23(4):044201, and PUBDB-2020-04828.

doi: 10.1103/PhysRevAccelBeams.23.044201.

Y. L. Chen et al.

Budgeting the Emittance of Photoemitted Electron Beams in a Space-Charge affected Emission Regime for Free-Electron Laser Applications.

AIP Advances, 10(3):035017, and PUBDB-2020-01066.

doi: 10.1063/1.5129532.

Y. Chen et al.

Frequency-Detuning Dependent Transient Coaxial RF Coupler Kick in an L-Band Long-Pulse High-Gradient RF Photogun.

Physical review accelerators and beams, 23(1):010101, and PUBDB-2020-00656.

doi: 10.1103/PhysRevAccelBeams.23.010101.

F. Christie et al.

Temporal X-ray Reconstruction using Temporal and Spectral Measurements at LCLS.

Scientific reports, 10(1):9799, and PUBDB-2020-02173, arXiv:1911.06090. DESY-19-198.

doi: 10.1038/s41598-020-66220-5.

W. Cichalewski et al.

Continuous Wave Operation of Superconducting Accelerating Cavities With High Loaded Quality Factor.

IEEE transactions on nuclear science, 67(9):2119, and PUBDB-2021-00509.

doi: 10.1109/TNS.2020.2993539.

CMS Collaboration.

Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS.

Journal of Instrumentation, 15(03):P03014, and PUBDB-2021-00560.

doi: 10.1088/1748-0221/15/03/P03014.

CMS Collaboration and TOTEM Collaboration.

The CMS Precision Proton Spectrometer timing system: performance in Run 2, future upgrades and sensor radiation hardness studies.

Journal of Instrumentation, 15(05):C05054, and PUBDB-2021-00459, arXiv:2004.11068.

doi: 10.1088/1748-0221/15/05/C05054.

J. Corno et al.

Uncertainty Modeling and Analysis of the European X-Ray Free Electron Laser Cavities Manufacturing Process.

Nuclear instruments & methods in physics research / A, 971:1, and PUBDB-2020-04056, 164135. arXiv:1906.09151.

doi: 10.1016/j.nima.2020.164135.

P. Craievich et al.

Novel X-band transverse deflection structure with variable polarization.

Physical review accelerators and beams, 23(11):112001 (1, and PUBDB-2020-04482.

doi: 10.1103/PhysRevAccelBeams.23.112001.

G. Darivianakis, A. Eichler and J. Lygeros.

Distributed Model Predictive Control for Linear Systems With Adaptive Terminal Sets.

IEEE transactions on automatic control, 65(3):1044, and PUBDB-2021-00433.

doi: 10.1109/TAC.2019.2916774.

U. Demirbas et al.

High-power passively mode-locked cryogenic Yb:YLF laser.

Optics letters, 45(7):2050, and PUBDB-2020-01215.

doi: 10.1364/OL.390291.

M. Dyndal et al.

Mini-MALTA: Radiation hard pixel designs for small-electrode monolithic CMOS sensors for the High Luminosity LHC.

Journal of Instrumentation, 15(02):P02005, and PUBDB-2021-00243, arXiv:1909.11987.

doi: 10.1088/1748-0221/15/02/P02005.

J. Engel et al.

Polymer Foil Windows for Gas-Vacuum Separation in Accelerator Applications.

AIP Advances, 10(2):025224, and PUBDB-2020-00631.

doi: 10.1063/1.5143258.

R. Ete et al.

MarlinMT - parallelising the Marlin framework.

24th International Conference on Computing in High Energy and Nuclear Physics, Adelaide (Australia), 4 Nov 2019 - 8 Nov 2019.

The European physical journal / Web of Conferences, vol. 245:05022, and PUBDB-2020-04876.

EDP Sciences, Les Ulis.

doi: 10.1051/epjconf/202024505022.

L. Fan-Chiang et al.

Gas Density Structure of Supersonic Flows Impinged on by Thin Blades for Laser-Plasma Accelerator Targets.

Physics of fluids, 32(6):066108, and PUBDB-2020-04751.

doi: 10.1063/5.0005888.

K. Floettmann.

Equivalence of Gouy and Courant-Snyder Phase.

Physical review / A, 102(3):033507, and PUBDB-2020-03121, arXiv:2006.12962. DESY-20-108. arXiv:2006.12962. DESY 20-108. DESY-20-108.

doi: 10.1103/PhysRevA.102.033507.

K. Floettmann and D. Karlovets.

Quantum Mechanical Formulation of the Busch Theorem.

Physical review / A, 102(4):043517 (1, and PUBDB-2020-03715, arXiv:2006.12948. DESY-20-107.

doi: 10.1103/PhysRevA.102.043517.

F. Gaede, B. Hegner and G. A. Stewart.

PODIO: recent developments in the Plain Old Data EDM toolkit.

24th International Conference on Computing in High Energy and Nuclear Physics, Adelaide (Australia), 4 Nov 2019 - 8 Nov 2019.

The European physical journal / Web of Conferences, vol. 245:05024 (1, and PUBDB-2020-04987.

EDP Sciences, Les Ulis.

doi: 10.1051/epjconf/202024505024.

F. Gaede et al.

DD4hep a community driven detector description for HEP.

24th International Conference on Computing in High Energy and Nuclear Physics, Adelaide (Australia), 4 Nov 2019 - 8 Nov 2019.

The European physical journal / Web of Conferences, vol. 245:02004, and PUBDB-2020-04875.

EDP Sciences, Les Ulis.

doi: 10.1051/epjconf/202024502004.

V. Gharibyan.

Experimental Hint for Gravitational CP Violation.

Modern physics letters / A A, 35(11):2050079, and PUBDB-2020-01621, DESY 16-014.

doi: 10.1142/S0217732320500790.

A. J. Gonsalves et al.

Laser-Heated Capillary Discharge Plasma Waveguides for Electron Acceleration to 8 GeV.

Physics of plasmas, 27(5):053102, and PUBDB-2020-04919.

doi: 10.1063/5.0002769.

C. Hahn et al.

A scintillatorbased particle detector for CRYRING@ESR.
X-ray spectrometry, 49(2):338, and PUBDB-2021-00371.
doi: 10.1002/xrs.3112.

A. Halavanau et al.

Population inversion X-ray laser oscillator.
Proceedings of the National Academy of Sciences of the United States of America, 117(27):15511, and PUBDB-2020-03699, arXiv:1912.03554.
doi: 10.1073/pnas.2005360117.

Y. Han et al.

Study of CMOS strip sensor for future silicon tracker.
Nuclear instruments & methods in physics research / A, 981:164520, and PUBDB-2021-00571.
doi: 10.1016/j.nima.2020.164520.

K. Heinemann et al.

Reevaluation of Spin-Orbit Dynamics of Polarized e^+e^- Beams in High Energy Circular Accelerators and Storage Rings: An approach Based on a Bloch Equation.
International journal of modern physics / A, 35(15 & 16):2041003, and PUBDB-2021-00553.
doi: 10.1142/S0217751X20410031.

K. Heinemann et al.

The Bloch Equation for Spin Dynamics in Electron Storage Rings: Computational and Theoretical Aspects.
International journal of modern physics / A Particles and fields, gravitation, cosmology A, A34(36):1942032, and PUBDB-2020-01075, DESY-19-156.
doi: 10.1142/S0217751X19420326.

P. Huang et al.

Single Shot Cathode Transverse Momentum Imaging in High Brightness Photoinjectors.
Physical review accelerators and beams, 23(4):043401, and PUBDB-2020-02152.
doi: 10.1103/PhysRevAccelBeams.23.043401.

A. Ivanov and I. Agapov.

Physics-Based Deep Neural Networks for Beam Dynamics in Charged Particle Accelerators.
Physical review accelerators and beams, 23(7):074601, and PUBDB-2021-01436.
doi: 10.1103/PhysRevAccelBeams.23.074601.

M. I. Ivanyan et al.

Wakefields in Conducting Waveguides with a Lossy Dielectric Channel.
Physical review accelerators and beams, 23(4):041301, and PUBDB-2020-05052.
doi: 10.1103/PhysRevAccelBeams.23.041301.

M. Ivanyan et al.

On the Resonant Properties of the THz Metal-Dielectric Waveguide Impedance.
Journal of physics / Conference Series, 1596(1):012026, and PUBDB-2020-05049.
doi: 10.1088/1742-6596/1596/1/012026.

S. Jaster-Merz et al.

Development of a Beam Profile Monitor based on Silicon Strip Sensors for Low-Charge Electron Beams.
1. 4th European Advanced Accelerator Concepts Workshop, Elba (Italy), 15 Sep 2019 - 20 Sep 2019.
Journal of physics / Conference Series, vol. 15961:012047, and PUBDB-2020-04285.
IOP Publ., Bristol.
doi: 10.1088/1742-6596/1596/1/012047.

M. Kellermeier et al.

Towards Additive Manufacturing of Dielectric Accelerating Structures.
1. 4th European Advanced Accelerator Concepts Workshop, Isola d'Elba (Italy), 15 Sep 2019 - 21 Sep 2019.
Journal of physics / Conference Series, vol. 15961:012020 (1, and PUBDB-2020-04358.
IOP Publ., Bristol.
doi: 10.1088/1742-6596/1596/1/012020.

M. Kirchen et al.

Scalable Spectral Solver in Galilean Coordinates for Eliminating the Numerical Cherenkov Instability in Particle-in-Cell Simulations of Streaming Plasmas.
Physical review / E, 102(1):013202, and PUBDB-2020-02518.
doi: 10.1103/PhysRevE.102.013202.

M. Kobayashi et al.

Electron and ion transmission of the gating foil for the TPC in the ILC experiment.
1. Micro-Pattern Gaseous Detectors Conference 2019, La Rochelle (France), 5 May 2019 - 10 May 2019.
Journal of physics / Conference Series, vol. 14981:012020, and PUBDB-2020-04813.
IOP Publ., Bristol.
doi: 10.1088/1742-6596/1498/1/012020.

Parameter Studies on Dielectric Gratings as Electron Accelerators. 4th European Advanced Accelerator Concepts Workshop 15-20 September 2019, Isola d'Elba (Italy), 15 Sep 2019 - 20 Sep 2019. IOP Publ., Bristol. doi: 10.1088/1742-6596/1596/1/012018.

I. V. Kuzmin et al.

Shaping Picosecond Ellipsoidal Laser Pulses with Periodic Intensity Modulation for Electron Photoinjectors.
Applied optics, 59(9):2776, and PUBDB-2020-04250.
doi: 10.1364/AO.383181.

F. Lemery et al.

Highly Scalable Multicycle THz Production with a Homemade Periodically Poled Macrocrystal.
Communications Physics, 3(1):150, and PUBDB-2020-02856.
doi: 10.1038/s42005-020-00421-2.

V. Leroux, T. Eichner and A. Maier.

Description of spatio-temporal couplings from heat-induced compressor grating deformation.
Optics express, 28(6):8257, and PUBDB-2020-00937.
doi: 10.1364/OE.386112.

- C. A. Lindstroem et al.
Matching small beta functions using centroid jitter and two beam position monitors.
Physical review accelerators and beams, 23(5):052802, and PUBDB-2020-02357, arXiv:2002.06022, DESY-20-038.
 doi: 10.1103/PhysRevAccelBeams.23.052802.
- N. M. Lockmann et al.
Noninvasive THz spectroscopy for bunch current profile reconstructions at MHz repetition rates.
Physical review accelerators and beams, 23(11):112801, and PUBDB-2020-04551.
 doi: 10.1103/PhysRevAccelBeams.23.112801.
- G. Loisch et al.
Towards Experimental Investigation of Hosing Instability Mitigation at the PITZ Facility.
Journal of physics / Conference Series, 1596(1):012003, and PUBDB-2020-03983.
 doi: 10.1088/1742-6596/1596/1/012003.
- J. Lorkiewicz et al.
Coating in Ultra-High Vacuum Cathodic-Arc and Processing of Pb Films on Nb Substrate as Steps in Preparation of Nb-Pb Photocathodes for Radio-frequency, Superconducting e – Guns.
Vacuum, 179:109524, and PUBDB-2021-00506.
 doi: 10.1016/j.vacuum.2020.109524.
- C. Mahnke et al.
A passively mode-locked Holmium fiber oscillator based on a Nonlinear Amplifying Loop Mirror operating at 2050 nm.
 9th EPS-QEOD Europhoton Conference, virtual (Prague), Czech Republic, 30 Aug 2020 - 4 Sep 2020, Prague (Czech Republic), 30 Aug 2020 - 4 Sep 2020.
The European physical journal / Web of Conferences, vol. 243:04002, and PUBDB-2020-04869.
 EDP Sciences, Les Ulis.
 doi: 10.1051/epjconf/202024304002.
- A. Maier et al.
Decoding Sources of Energy Variability in Laser-Plasma Accelerators.
Physical review / X, 10(3):031039 (1, and PUBDB-2020-02855.
 doi: 10.1103/PhysRevX.10.031039.
- B. Marchetti et al.
SINBAD-ARES - A Photo-Injector for External Injection Experiments in Novel Accelerators at DESY.
 4th European Advanced Accelerator Concepts Workshop, Isola d'Elba (Italy), 15 Sep 2019 - 20 Sep 2019.
Journal of physics / Conference Series, vol. 1596:012036, and PUBDB-2020-04867.
 IOP Publ., Bristol.
 doi: 10.1088/1742-6596/1596/1/012036.
- F. Mayet, R. Assmann and F. Lemery.
Longitudinal Phase Space Synthesis with Tailored 3D-Printable Dielectric-Lined Waveguides.
Physical review accelerators and beams, 23(12):121302 (1, and PUBDB-2020-05153, DESY 20-168.
 doi: 10.1103/PhysRevAccelBeams.23.121302.
- M. Meschini et al.
Radiation resistant innovative 3D pixel sensors for the CMS upgrade at the High Luminosity LHC.
Nuclear instruments & methods in physics research / A, 978:164429, and PUBDB-2021-00510, CMS-CR-2020-039.
 doi: 10.1016/j.nima.2020.164429.
- P. A. P. Nghiem et al.
Toward a Plasma-based Accelerator at High Beam Energy with High Beam Charge and High Beam Quality.
Physical review accelerators and beams, 23(3):031301, and PUBDB-2020-01432.
 doi: 10.1103/PhysRevAccelBeams.23.031301.
- L. Nozka et al.
Performance studies of new optics for the time-of-flight detector of the AFP project.
Optics express, 28(13):19783, and PUBDB-2020-03243.
 doi: 10.1364/OE.394582.
- O. G. Olkhovskaya et al.
Plasma channel formation in the knife-like focus of laser beam.
Journal of plasma physics, 86(3):905860307 (1, and PUBDB-2020-04752.
 doi: 10.1017/S0022377820000458.
- E. Panofski, R. Assmann and E. Svystun.
Multi-Objective Optimization of the Matching Beamline for External Injection into a Laser-Driven Plasma Accelerator.
 1. 4th European Advanced Accelerator Concepts Workshop, Isola d'Elba (Italy), 15 Sep 2019 - 21 Sep 2019.
Journal of physics / Conference Series, vol. 1596:012041 (1, and PUBDB-2020-04944.
 IOP Publ., Bristol.
 doi: 10.1088/1742-6596/1596/1/012041.
- V. Paramonov and K. Floettmann.
Lower Limit of the Transverse Emittance Growth in Deflecting RF Fields.
Physical review accelerators and beams, 23(1):014401, and PUBDB-2020-05048.
 doi: 10.1103/PhysRevAccelBeams.23.014401.
- C. V. Pieronek et al.
Laser-heated Capillary Discharge Waveguides as Tunable Structures for Laser-Plasma Acceleration.
Physics of plasmas, 27(9):093101, and PUBDB-2020-04742.
 doi: 10.1063/5.0014961.
- A. Potylitsyn et al.
Image of the Transverse Bunch Profile via Coherent Optical Transition Radiation.
Physical review accelerators and beams, 23(4):042804, and PUBDB-2020-02226.
 doi: 10.1103/PhysRevAccelBeams.23.042804.
- K. Ravi and F. Kärtner.
Raman Shifting Induced by Cascaded Quadratic Nonlinearities for Terahertz Generation.
Laser & photonics reviews, NA(NA):2000109 (1, and PUBDB-2020-03538.
 doi: 10.1002/lpor.202000109.

M. Ruiz Lopez et al.

Wavefront Sensing for Evaluation of Extreme Ultraviolet Microscopy.

Sensors, 20(22):6426 (1, and PUBDB-2020-04389.

doi: 10.3390/s20226426.

B. Schmidt et al.

Benchmarking Coherent Radiation Spectroscopy as a Tool for High-Resolution Bunch Shape Reconstruction at Free-Electron Lasers.

Physical review accelerators and beams, 23(6):062801, and PUBDB-2020-01429.

doi: 10.1103/PhysRevAccelBeams.23.062801.

S. Schröder et al.

Tunable and precise two-bunch generation at FLASHForward.

1. 4th European Advanced Accelerator Concepts Workshop 15-20 September 2019, Isola d'Elba (Italy), 15 Sep 2019 - 21 Sep 2019.

Journal of physics / Conference Series, vol. 1596:1:012002 (1, and PUBDB-2020-04017, arXiv:2005.12071. DESY-20-039.

IOP Publ., Bristol.

doi: 10.1088/1742-6596/1596/1/012002.

S. Schröder et al.

High-resolution sampling of beam-driven plasma wakefields.

Nature Communications, 11(1):5984 (1, and PUBDB-2020-04652.

doi: 10.1038/s41467-020-19811-9.

M. B. Schwab et al.

Visualization of Relativistic Laser Pulses in Underdense Plasma.

Physical review accelerators and beams, 23(3):032801, and PUBDB-2021-00649.

doi: 10.1103/PhysRevAccelBeams.23.032801.

S. Serkez et al.

Opportunities for Two-Color Experiments in the Soft X-ray Regime at the European XFEL.

Applied Sciences, 10(8):2728, and PUBDB-2021-00607.

doi: 10.3390/app10082728.

R. Shalloo et al.

Automation and Control of Laser Wakefield Accelerators using Bayesian Optimization.

Nature Communications, 11(1):6355 (1, and PUBDB-2020-04934.

doi: 10.1038/s41467-020-20245-6.

B. Steffen et al.

Compact Single-Shot Electro-Optic Detection System for THz Pulses with Femtosecond Time Resolution at MHz Repetition Rates.

Review of scientific instruments, 91(4):045123, and PUBDB-2021-00610.

doi: 10.1063/1.5142833.

The DUNE Collaboration.

Volume I. Introduction to DUNE.

Journal of Instrumentation, 15(08):T08008 (1, and PUBDB-2020-05216, 1. arXiv:2002.02967. FERMILAB-PUB-20-024-ND. FERMILAB-DESIGN-2020-01.

doi: 10.1088/1748-0221/15/08/T08008.

S. V. Trofymenko et al.

Formation Region eEffects in X-ray Transition Radiation from 1 to 6 GeV Electrons in Multilayer Targets.

Nuclear instruments & methods in physics research / B Beam interactions with materials and atoms, 476:44, and PUBDB-2020-02481.

doi: 10.1016/j.nimb.2020.04.033.

T. Vinatier et al.

Feasibility Study for a THz Acceleration Experiment on the PHIL Accelerator at LAL.

Journal of physics / Conference Series, 1596(1):012033 (1, and PUBDB-2020-04684.

doi: 10.1088/1742-6596/1596/1/012033.

T. Vinatier et al.

Challenges and Tolerances for a Compact and Hybrid Ultrafast X-ray Pulse Source Based on RF and THz Technologies.

Journal of physics / Conference Series, 1596(1):012032 (1, and PUBDB-2020-04683.

doi: 10.1088/1742-6596/1596/1/012032.

B. V. Weber et al.

Cylindrical Reflex Triode Warm X-Ray Source.

IEEE transactions on plasma science, 48(11):3877, and PUBDB-2021-00507.

doi: 10.1109/TPS.2020.3031860.

M. Wenskat et al.

Nitrogen Infusion R&D at DESY - A Case Study on Cavity Cut-Outs.

Superconductor science and technology, 33(11):115017, and PUBDB-2020-02826.

doi: 10.1088/1361-6668/abb58c.

M. Wenskat et al.

Vacancy-Hydrogen Interaction in Niobium during Low-Temperature Baking.

Scientific reports, 10(1):8300, and PUBDB-2020-02437, arXiv:2004.13450. DESY-20-074.

doi: 10.1038/s41598-020-65083-0.

S. Yamin et al.

Design Considerations for Permanent Magnetic Quadrupole Triplet for Matching into Laser Driven Wake Field Acceleration Experiment at SINBAD.

Journal of physics / Conference Series, 1596(1):012010, and PUBDB-2020-04282.

doi: 10.1088/1742-6596/1596/1/012010.

M. Zeng, A. Martinez de la Ossa and J. Osterhoff.

Ponderomotively Assisted Ionization Injection in Plasma Wake-field Accelerators.

New journal of physics, 22:123003, and PUBDB-2020-04524.

doi: 10.1088/1367-2630/abc9ee.

M. Zeng et al.

Plasma eyepieces for petawatt class lasers.

Physics of plasmas, 27(2):023109 (1, and PUBDB-2020-05315, arXiv:1901.07974.

doi: 10.1063/1.5116416.

D. Zhang et al.
Cascaded multi-cycle terahertz driven ultrafast electron acceleration and manipulation.
Physical review / X, 10(1):011067, and PUBDB-2020-00667.
 doi: 10.1103/PhysRevX.10.011067.

Dissertationen

P. Boonpornprasert.
Investigations on the Capabilities of THz Production at the PITZ Facility.
 Universität Hamburg, 2020.

A. Ferran Pousa.
Novel Concepts and Theoretical Studies for High-Quality Plasma-Based Accelerators.
 Universität Hamburg, Hamburg, 2020.

J. D. Good.
Experimental Characterization of the Photocathode Laser System for Advanced 3D Pulse Shaping at PITZ.
 Universität Hamburg, 2020.

V. Grattoni.
Advanced Seeding Methods for Generation of Fully-Coherent Ultra-Short Soft X-Ray Pulses.
 University of Hamburg, 2020.

M. Haranko.
Development of a test DAQ system for the CMS Phase-2 outer tracker upgrade.
 Universität Hamburg, Hamburg, 2020.

W. Kuropka.
Studies towards Acceleration of Relativistic Electron Beams in Laser-driven Dielectric Microstructures.
 Universität Hamburg, Hamburg, 2020.

J.-H. Röckemann.
Experimental and theoretical studies on electron-beam focusing using active plasma lenses.
 University of Hamburg, 2020.

A. Velyka.
Concept and Development of Enhanced Lateral Drift (ELAD) Sensors.
 Universität Hamburg, Hamburg, 2020.

P. V. Winkler.
Emittance Measurements at Laser-Wakefield Accelerators.
 University of Hamburg, 2020.

4 | POF3-890 - Ohne Topic

ISI oder SCOPUS

I. Ambrožová et al.

REFLECT – Research flight of EURADOS and CRREAT: Intercomparison of various radiation dosimeters onboard aircraft.

Radiation measurements, 137:106433 (1, and PUBDB-2020-05310.

doi: 10.1016/j.radmeas.2020.106433.

I. Filozova et al.

JINR Open Access Repository based on the JOIN² Platform.

Data Analytics and Management in Data Intensive Domains 2020, Voronezh (Russia), 13 Oct 2020 - 16 Oct 2020.

CEUR workshop proceedings, vol. 2790:142, and PUBDB-2021-00818.

RWTH Aachen, Aachen, Germany.

doi: 10.3204/PUBDB-2021-00818.