

Veröffentlichungen am DESY

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Veröffentlichungen Teilchenphysik

H1

Veröffentlichungen

H. Abramowicz et al.
Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA.
The European physical journal / C, 73:2311, and PHPPUBDB-26530, DESY-12-172; arXiv:1211.1182.
<http://dx.doi.org/10.1140/epjc/s10052-013-2311-3>

C. Alexa et al.
Measurement of Charged Particle Spectra in Deep-Inelastic ep Scattering at HERA.
The European physical journal / C, C73(4):2406, and DESY-2013-00234, DESY 13-012.
<http://dx.doi.org/10.1140/epjc/s10052-013-2406-x>

C. Alexa et al.
Elastic and Proton-Dissociative Photoproduction of J/ψ Mesons at HERA; 1st ed.
The European physical journal / C, 73(6):2466, and DESY-2013-00874, DESY-13-058.
<http://dx.doi.org/10.1140/epjc/s10052-013-2466-y>

P. Belov.
Proton Structure and PDFs from HERA .
Acta physica Polonica / B / Proceedings supplement, volume 6 of *Acta physica Polonica / B / Proceedings supplement*, page 655, Cracow, 09/16/2012 - 09/21/2012 2013. 42. International Symposium on Multiparticle Dynamics, Kielce(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/DOI:10.5506/APhysPolBSupp.6.655>

J.-E. Olsson.
Combined Inclusive Diffractive Cross Sections Measured with Forward Proton Spectrometers in ep DIS at HERA.
Proceedings of Science, Proceedings of Science, page 090, Trieste, 04/22/2013 - 04/26/2013 2013. XXI International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

S. Shushkevich.
Inclusive Deep Inelastic Scattering at High Q^2 with Longitudinally Polarised Lepton Beams at HERA and Determination of the Integrated Luminosity at HERA using Elastic QED Compton Events.
Proceedings of Science, Proceedings of Science, page 37, Trieste, 04/22/2013 - 04/26/2013 2013. 21st International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

K. Wichmann.
Deep inelastic scattering at HERA.
Acta physica Polonica / B, volume 6, pages 709–714, Cracow, 09/17/2012 - 09/21/2012 2013. International Symposium on Multiparticle Dynamics, Kielce(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolBSupp.6.709>

Dissertationen

P. Belov.
Combination of the H1 and ZEUS Inclusive Cross-Section Measurements at Proton Beam Energies of 460 and 575 GeV and Tests of Low Bjorken-x Phenomenological Models.
 University of Hamburg, Hamburg, 2013.

D. Britzger.
Regularized Unfolding of Jet Cross Sections in Deep-Inelastic ep Scattering at HERA and Determination of the Strong Coupling Constant.
 Universität Hamburg, Hamburg, 2013.

A. Dossanov.
High Transverse Momentum Dijet Cross Section Measurements in Photoproduction at HERA.
 University of Hamburg, 2013.

F. Huber.
Elastic and Proton Dissociative J/ψ Photoproduction at low $W_{\gamma p}$ with the H1 Detector at HERA.
 Ruperto-Carola Univ. of Heidelberg, 2013.

H. Pirumov.
QCD Analysis of Neutral and Charged Current Cross Sections and Search for Contact Interactions at HERA.
 Univ. Heidelberg, 2013.

HERMES

Veröffentlichungen

A. Airapetian et al.
Azimuthal distributions of charged hadrons, pions, and kaons produced in deep-inelastic scattering off unpolarized protons and deuterons.
Physical review / D, 87:012010, and PHPPUBDB-25566, DESY 12-060; arXiv:1204.4161.
<http://dx.doi.org/10.1103/PhysRevD.87.012010>

A. Airapetian et al.
Multiplicities of charged pions and kaons from semi-inclusive deep-inelastic scattering by the proton and the deuteron.
Physical review / D, 87:074029, and PHPPUBDB-26476, DESY 12-157; arXiv:1212.5407.
<http://dx.doi.org/10.1103/PhysRevD.87.074029>

A. Airapetian et al.
The HERMES Recoil Detector.
Journal of Instrumentation, 8(05):49, and DESY-2013-00184, arXiv:1302.6092; DESY 13-034.
<http://dx.doi.org/10.1088/1748-0221/8/05/P05012>

Augustyniak, W. and HERMES Collaboration.
Exclusive electroproduction of vector mesons in lepton nucleon scattering at the HERMES experiment.
Nuclear physics / B / Proceedings supplements, volume 245, pages 207 – 214, Amsterdam, 06/30/2013 - 07/04/2013 2013. 7th Joint International Hadron Structure Conference, Tatranská Štrba(Slovak Republic), Elsevier.
<http://dx.doi.org/10.1016/j.nuclphysbps.2013.10.041>

Karyan, Gevorg and HERMES Collaboration.
Charged hadron multiplicities at the HERMES experiment.
 In *3rd Workshop on the QCD Structure of the Nucleons - QCD-N'12, Il nuovo cimento / C*, volume 2013, pages 139–142, [S.I.], 10/22/2012 - 10/26/2012 2013. 3rd Workshop on the QCD Structure of the Nucleons, Bilbao(Spain), Italian Physical Society.
<http://dx.doi.org/10.1393/ncc/i2013-11608-1>

Marukyan, Hrachya and HERMES Collaboration.
Exclusive reactions at HERMES.
 In *3rd Workshop on the QCD Structure of the Nucleons - QCD-N'12, Il nuovo cimento / C*, volume 2013, pages 55–60, [S.I.], 10/22/2012 - 10/26/2012 2013. 3rd Workshop on the QCD Structure of the Nucleons, Bilbao(Spain), Italian Physical Society.
<http://dx.doi.org/10.1393/ncc/i2013-11586-2>

Dissertationen

S. J. Joosten.
Fragmentation and nucleon structure in semi-inclusive deep-inelastic scattering at the HERMES experiment.
 University of Illinois at Urbana-Champaign, 2013.

G. A. Karyan.
A study of charged hadron yields and the multidimensional nuclear attenuation effect at the HERMES experiment.
 A.I. Alikhanyan National Science Laboratory, 2013.

Masterarbeiten

E. Etzelmüller.
Measurement of asymmetries in associated DVCS using the HERMES Recoil detector.
 Justus-Liebig-Universität Gießen, 2013.

M. Stahl.
Analysis of Resonant Structures in the pK_S^0 -channel at HERMES.
 Justus-Liebig-Universität Gießen, 2013.

ZEUS

Veröffentlichungen

H. Abramowicz et al.
Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA.
The European physical journal / C, 73:2311, and PHPPUBDB-26530, DESY-12-172; arXiv:1211.1182.
<http://dx.doi.org/10.1140/epjc/s10052-013-2311-3>

H. Abramowicz et al.
Production of the excited charm mesons D_1 and D_2^* at HERA.
Nuclear physics / B, 866:229–254, and PHPPUBDB-22400, DESY 12-144; arXiv:1208.4468.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.09.007>

H. Abramowicz et al.
Production of Z^0 bosons in elastic and quasi-elastic ep collisions at HERA.
Physics letters / B, 718:915–921, and PHPPUBDB-24154, DESY 12-168; arXiv 1210.5511.
<http://dx.doi.org/10.1016/j.physletb.2012.11.051>

H. Abramowicz et al.
Measurement of Inelastic J/ψ and ψ' Photoproduction at HERA.
Journal of high energy physics, 2013:071, and PHPPUBDB-25948, DESY 12-226; arXiv:1211.6946.
[http://dx.doi.org/10.1007/JHEP02\(2013\)071](http://dx.doi.org/10.1007/JHEP02(2013)071)

H. Abramowicz et al.
Measurement of $D^\pm$ production in deep inelastic ep scattering with the ZEUS detector at HERA.
Journal of high energy physics, 2013(5):23, and DESY-2013-00365, DESY 13-028; arXiv: 1302.5058.
[http://dx.doi.org/10.1007/JHEP05\(2013\)023](http://dx.doi.org/10.1007/JHEP05(2013)023)

H. Abramowicz et al.
Measurement of $D^{*\pm}$ production in deep inelastic scattering at HERA.
Journal of high energy physics, 2013(5):97, and DESY-2013-00366, DESY 13-054; arXiv:1303.6578.
[http://dx.doi.org/10.1007/JHEP05\(2013\)097](http://dx.doi.org/10.1007/JHEP05(2013)097)

H. Abramowicz et al.
Measurement of $high-Q^2$ neutral current deep inelastic e^+p scattering cross sections with a longitudinally polarized positron beam at HERA.
Physical review / D, 87(5):052014, and DESY-2014-00266, DESY 12-145.
<http://dx.doi.org/10.1103/PhysRevD.87.052014>

L. Adamczyk et al.
Measurement of the Luminosity in the ZEUS Experiment at HERA II.
Nuclear instruments & methods in physics research, and DESY-2013-01083, DESY-2013-081; arXiv:1306.1391.
<http://dx.doi.org/10.1016/j.nima.2014.01.053>

O. Behnke.
QCD tests in DIS.
Proceedings of Science, volume PoS(DIS 2013)005, Trieste, 04/22/2013 - 04/26/2013 2013. XXI International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

A. Gizhko.
HERAFitter - an open source QCD fit framework.
Nuclear physics / B / Proceedings supplements, volume 245, pages 161 – 163, Amsterdam, 06/30/2013 - 07/04/2013 2013. 7th Joint International Hadron Structure'13 Conference, Tatranské Matliare(Slovakia), Elsevier.
<http://dx.doi.org/10.1016/j.nuclphysbps.2013.10.031>

A. Iudin.
Isolated photon production at HERA.
Proceedings of Science, volume 008, Trieste, 05/20/2013 - 05/24/2013 2013. Photon 2013, Paris(France), SISSA.

A. Iudin.
Measurement of isolated photons with and without accompanying jets at HERA.
Proceedings of Science, Trieste, 04/22/2013 - 04/26/2013 2013. 21st International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

R. Klanner, E. Fretwurst, I. Pintilie, J. Schwandt, and J. Zhang.

Study of high-dose X-ray radiation damage of silicon sensors.
Nuclear instruments & methods in physics research / A, 732:117 – 121, and DESY-2014-01975.
<http://dx.doi.org/10.1016/j.nima.2013.05.131>

H. Kowalski, L. N. Lipatov, and D. A. Ross.

BFKL Evolution as a Communicator Between Small and Large Energy Scales.

Physics of particles and nuclei, 44(3):547 – 567, and DESY-2014-01652.
<http://dx.doi.org/10.1134/S1063779613030052>

O. Kuprash.

Isolated Photons + Jets in DIS and Photoproduction at ZEUS.
Nuclear physics / B / Proceedings supplements, volume 245, pages 141 – 144, Amsterdam, 06/30/2013 - 07/04/2013 2013. 7th Joint International Hadron Structure'13 Conference, Tatranské Matliare(Slovakia), Elsevier.
<http://dx.doi.org/10.1016/j.nuclphysbps.2013.10.026>

A. V. Lipatov.

Isolated prompt photon pair production at hadron colliders with kt-factorization.

Journal of high energy physics, 2013:009, and PHPPUBDB-26277, DESY 12-169; arXiv:1210.0823.
[http://dx.doi.org/10.1007/JHEP02\(2013\)009](http://dx.doi.org/10.1007/JHEP02(2013)009)

M. Lisovsky.

Particle Production at HERA.

In *Proceedings of 5th Workshop on Excited QCD 2013, Acta physica Polonica / B*, volume 6, pages 815–820, Cracow, 02/03/2013 - 02/09/2013 2013. 5th Workshop on Excited QCD 2013, Sarajevo(Bosnia-Herzegovina), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolBSupp.6.815>

B. Loeher.

Results from ZEUS at HERA.

Proceedings of Science, Trieste, 06/23/2013 - 06/30/2013 2013. The XXI International Workshop High Energy Physics and Quantum Field Theory, Saint Petersburg Area(Russia), SISSA.

T. Poehlsen et al.

Study of the accumulation layer and charge losses at the Si-SiO₂ interface in p+n-silicon strip sensors.

Nuclear instruments & methods in physics research / A, 721:26 – 34, and DESY-2014-01946.
<http://dx.doi.org/10.1016/j.nima.2013.04.026>

A. Verbytskyi.

Production of the excited charm mesons D_1 and D_2^* at Hera.

Proceedings of Science, volume POS (DIS 2013) 290, Trieste, 04/22/2013 - 04/26/2013 2013. XXI International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

K. Wichmann.

Deep inelastic scattering at HERA.

Acta physica Polonica / B, volume 6, pages 709–714, Cracow, 09/17/2012 - 09/21/2012 2013. International Symposium on Multiparticle Dynamics, Kielce(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolBSupp.6.709>

O. Zenaiev.

Measurement of D⁺ production in Deep Inelastic epScattering with the ZEUS detector at HERA.

Proceedings of Science, volume PoS (DIS 2013) 299, Trieste, 04/22/2013 - 04/26/2013 2013. XXI International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.

Dissertationen

V. Libov.

Measurement of Charm and Beauty Production in Deep Inelastic Scattering at HERA and Test Beam Studies of ATLAS Pixel Sensors.

Hamburg University, Hamburg, 2013.

A. Verbytskyi.

Production of the Excited Charm Mesons D_1 and D_2^* at HERA.

University of Hamburg, 2013.

ATLAS

Veröffentlichungen

G. Aad et al.

ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013:29, and DESY-2013-00468, CERN-PH-EP-2012-257; arXiv:1210.1718.
[http://dx.doi.org/10.1007/JHEP01\(2013\)029](http://dx.doi.org/10.1007/JHEP01(2013)029)

G. Aad et al.

Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC.

The European physical journal / C, 73(8):2518, and DESY-2013-00814, CERN-PH-EP-2013-026.
<http://dx.doi.org/10.1140/epjc/s10052-013-2518-3>

G. Aad et al.

Jet energy measurement with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73:2304, and DESY-2013-00701, CERN-PH-EP-2011-191.
<http://dx.doi.org/10.1140/epjc/s10052-013-2304-2>

G. Aad et al.

Jet energy resolution in proton-proton collisions at $\sqrt{s} = 7$ TeV recorded in 2010 with the ATLAS detector.

The European physical journal / C, 73(3):2306, and DESY-2013-00445, CERN-PH-EP-2012-191.
<http://dx.doi.org/10.1140/epjc/s10052-013-2306-0>

G. Aad et al.

Measurement of angular correlations in Drell–Yan lepton pairs to probe Z/γ^* boson transverse momentum at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 720(1-3):32 – 51, and DESY-2013-00451, CERN-PH-EP-2012-325.
<http://dx.doi.org/10.1016/j.physletb.2013.01.054>

- G. Aad et al.
Measurement of hard double-parton interactions in $W(\rightarrow \ell\nu)$ + 2-jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector.
New journal of physics, 15(3):033038, and DESY-2013-00418, CERN-PH-EP-2012-355.
<http://dx.doi.org/10.1088/1367-2630/15/3/033038>
- G. Aad et al.
Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.
Journal of high energy physics, 2013(1):86, and DESY-2013-00435, CERN-PH-EP-2012-300.
[http://dx.doi.org/10.1007/JHEP01\(2013\)086](http://dx.doi.org/10.1007/JHEP01(2013)086)
- G. Aad et al.
Measurement of κ_T splitting scales in $W \rightarrow \ell\nu$ events at $\sqrt{s} = 7$ TeV with the ATLAS detector.
The European physical journal / C, 73(5):2432, and DESY-2013-00412, CERN-PH-EP-2012-003.
<http://dx.doi.org/10.1140/epjc/s10052-013-2432-8>
- G. Aad et al.
Measurement of Z Boson Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector.
Physical review letters, 110(2):022301, and DESY-2013-00444, CERN-PH-EP-2012-223.
<http://dx.doi.org/10.1103/PhysRevLett.110.022301>
- G. Aad et al.
Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and $ZZ\gamma$ couplings with the ATLAS detector.
Journal of high energy physics, 2013(3):128, and DESY-2013-00427, CERN-PH-EP-2012-318.
[http://dx.doi.org/10.1007/JHEP03\(2013\)128](http://dx.doi.org/10.1007/JHEP03(2013)128)
- G. Aad et al.
Measurement of jet shapes in top-quark pair events at $\sqrt{s} = 7$ TeV using the ATLAS detector.
The European physical journal / C, 73(12):2676, and DESY-2014-00164, CERN-PH-EP-2013-067.
<http://dx.doi.org/10.1140/epjc/s10052-013-2676-3>
- G. Aad et al.
Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector.
Physical review letters, 111(15):152301, and DESY-2014-00070.
<http://dx.doi.org/10.1103/PhysRevLett.111.152301>
- G. Aad et al.
Measurement of the cross-section for W boson production in association with b -jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.
Journal of high energy physics, 2013(6):84, and DESY-2013-00411, CERN-PH-EP-2012-357.
[http://dx.doi.org/10.1007/JHEP06\(2013\)084](http://dx.doi.org/10.1007/JHEP06(2013)084)
- G. Aad et al.
Measurement of the differential cross-section of B^+ meson production in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS.
Journal of high energy physics, 2013:42, and DESY-2013-01518, CERN-PH-EP-2013-089; arXiv:1307.0126v2.
[http://dx.doi.org/10.1007/JHEP10\(2013\)042](http://dx.doi.org/10.1007/JHEP10(2013)042)
- G. Aad et al.
Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC.
Journal of high energy physics, 2013:183, and DESY-2014-00085, CERN-PH-EP-2013-04.
[http://dx.doi.org/10.1007/JHEP11\(2013\)183](http://dx.doi.org/10.1007/JHEP11(2013)183)
- G. Aad et al.
Measurement of the flavour composition of dijet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector.
The European physical journal / C, 73:2301, and DESY-2013-00677, CERN-PH-EP-2012-255.
<http://dx.doi.org/10.1140/epjc/s10052-013-2301-5>
- G. Aad et al.
Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s} = 2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s} = 7$ TeV using the ATLAS detector.
The European physical journal / C, 73:2509, and DESY-2013-00594, CERN-PH-EP-2013-036.
<http://dx.doi.org/10.1140/epjc/s10052-013-2509-4>
- G. Aad et al.
Measurement of the $t\bar{t}$ production cross section in the tau + jets channel using the ATLAS detector.
The European physical journal / C, 73(3):2328, and DESY-2013-00425, CERN-PH-EP-2012-328.
<http://dx.doi.org/10.1140/epjc/s10052-013-2328-7>
- G. Aad et al.
Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector.
Physics letters / B, 719(4-5):220 – 241, and DESY-2013-00686, CERN-PH-EP-2012-134.
<http://dx.doi.org/10.1016/j.physletb.2013.01.024>
- G. Aad et al.
Measurement of the Λ_b^0 lifetime and mass in the ATLAS experiment.
Physical review / D, 87(3):032002, and DESY-2013-00699, CERN-PH-EP-2012-163.
<http://dx.doi.org/10.1103/PhysRevD.87.032002>
- G. Aad et al.
Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.
Journal of high energy physics, 2013(7):32, and DESY-2013-00397, CERN-PH-EP-2013-023.
[http://dx.doi.org/10.1007/JHEP07\(2013\)032](http://dx.doi.org/10.1007/JHEP07(2013)032)
- G. Aad et al.
Measurement of the top quark charge in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.
Journal of high energy physics, 2013:31, and DESY-2014-00081, CERN-PH-EP-2013-056.
[http://dx.doi.org/10.1007/JHEP11\(2013\)031](http://dx.doi.org/10.1007/JHEP11(2013)031)
- G. Aad et al.
Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s} = 7$ TeV Using the ATLAS Detector.
Physical review letters, 111(23):232002, and DESY-2014-00158, CERN-PH-EP-2013-101.
<http://dx.doi.org/10.1103/PhysRevLett.111.232002>

G. Aad et al.

Measurement of Upsilon production in 7 TeV pp collisions at ATLAS.

Physical review / D, 87(5):052004, and DESY-2013-00424, CERN-PH-EP-2012-295.

<http://dx.doi.org/10.1103/PhysRevD.87.052004>

G. Aad et al.

Measurement of W^+W^- production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector and limits on anomalous WWZ and WW_γ couplings.

Physical review / D, 87(11):112001, and DESY-2013-00369, CERN-PH-EP-2012-242.

<http://dx.doi.org/10.1103/PhysRevD.87.112001>

G. Aad et al.

Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC.

Physical review / D, 87(11):112003, and DESY-2013-00413, CERN-PH-EP-2012-345.

<http://dx.doi.org/10.1103/PhysRevD.87.112003>

G. Aad et al.

Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73:2261, and DESY-2013-00689, CERN-PH-EP-2012-165.

<http://dx.doi.org/10.1140/epjc/s10052-012-2261-1>

G. Aad et al.

Observation of Associated Near-Side and Away-Side Long-Range Correlations in $\sqrt{s_{NN}} = 5.02$ TeV Proton-Lead Collisions with the ATLAS Detector.

Physical review letters, 110(18):182302, and DESY-2013-00422, CERN-PH-EP-2012-366.

<http://dx.doi.org/10.1103/PhysRevLett.110.182302>

G. Aad et al.

Performance of jet substructure techniques for large- R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector.

Journal of high energy physics, 2013(9):76, and DESY-2013-00830, CERN-PH-EP-2013-069.

[http://dx.doi.org/10.1007/JHEP09\(2013\)076](http://dx.doi.org/10.1007/JHEP09(2013)076)

G. Aad et al.

Search for a light charged Higgs boson in the decay channel $H^+ \rightarrow c\bar{s}$ in $t\bar{t}$ events using pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

The European physical journal / C, 73(6):2465, and DESY-2013-00410, CERN-PH-EP-2012-338.

<http://dx.doi.org/10.1140/epjc/s10052-013-2465-z>

G. Aad et al.

Search for charged Higgs bosons through the violation of lepton universality in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS experiment.

Journal of high energy physics, 2013(3):76, and DESY-2013-00423, CERN-PH-EP-2012-347.

[http://dx.doi.org/10.1007/JHEP03\(2013\)076](http://dx.doi.org/10.1007/JHEP03(2013)076)

G. Aad et al.

Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector.

Physical review / D, 88(11):112006, and DESY-2014-00161, CERN-PH-EP-2013-155.

<http://dx.doi.org/10.1103/PhysRevD.88.112006>

G. Aad et al.

Search for contact interactions and large extra dimensions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physical review / D, 87(1):015010, and DESY-2013-00439, CERN-PH-EP-2012-279.

<http://dx.doi.org/10.1103/PhysRevD.87.015010>

G. Aad et al.

Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector.

Journal of high energy physics, 2013:75, and DESY-2013-00467, CERN-PH-EP-2012-210.

[http://dx.doi.org/10.1007/JHEP04\(2013\)075](http://dx.doi.org/10.1007/JHEP04(2013)075)

G. Aad et al.

Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in pp Collision Data at $\sqrt{s} = 7$ TeV with the ATLAS Detector.

Physical review / D, 110(1):011802, and DESY-2013-00469, CERN-PH-EP-2012-209.

<http://dx.doi.org/10.1103/PhysRevLett.110.011802>

G. Aad et al.

Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector.

Physics letters / B, 718(3):841 – 859, and DESY-2013-00678, CERN-PH-EP-2012-217.

<http://dx.doi.org/10.1016/j.physletb.2012.11.039>

G. Aad et al.

Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 718(3):879 – 901, and DESY-2013-00683, CERN-PH-EP-2012-216.

<http://dx.doi.org/10.1016/j.physletb.2012.11.058>

G. Aad et al.

Search for direct third-generation squark pair production in final states with missing transverse momentum and two b -jets in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector.

Journal of high energy physics, 2013:189, and DESY-2014-00079, CERN-PH-EP-2013-119.

[http://dx.doi.org/10.1007/JHEP10\(2013\)189](http://dx.doi.org/10.1007/JHEP10(2013)189)

G. Aad et al.

Search for extra dimensions in diphoton events from proton-proton collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector at the LHC.

New journal of physics, 15(4):043007, and DESY-2013-00441, CERN-PH-EP-2012-289.

<http://dx.doi.org/10.1088/1367-2630/15/4/043007>

G. Aad et al.

A search for high-mass resonances decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 719(4-5):242 – 260, and DESY-2013-00443, CERN-PH-EP-2012-280.
<http://dx.doi.org/10.1016/j.physletb.2013.01.040>

G. Aad et al.

Search for $t\bar{t}$ resonances in the lepton plus jets final state with ATLAS using $4.7fb^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, 88(1):012004, and DESY-2013-00394, CERN-PH-EP-2013-032.
<http://dx.doi.org/10.1103/PhysRevD.88.012004>

G. Aad et al.

Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton–proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

New journal of physics, 15(4):043009, and DESY-2013-00409, CERN-PH-EP-2012-365.
<http://dx.doi.org/10.1088/1367-2630/15/4/043009>

G. Aad et al.

Search for light top squark pair production in final states with leptons and b -jets with the ATLAS detector in $\sqrt{s} = 7$ TeV proton–proton collisions.

Physics letters / B, 720(1-3):13 – 31, and DESY-2013-00470, CERN-PH-EP-2012-207.
<http://dx.doi.org/10.1016/j.physletb.2013.01.049>

G. Aad et al.

Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton–proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 719(4-5):280 – 298, and DESY-2013-00442, CERN-PH-EP-2012-259.
<http://dx.doi.org/10.1016/j.physletb.2013.01.042>

G. Aad et al.

Search for long-lived stopped R -hadrons decaying out-of-time with pp collisions using the ATLAS detector.

Physical review / D, 88(11):112003, and DESY-2014-00086, CERN-PH-EP-2013-161.
<http://dx.doi.org/10.1103/PhysRevD.88.112003>

G. Aad et al.

Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector.

Physical review / D, 88(7):072001, and DESY-2013-01517.
<http://dx.doi.org/10.1103/PhysRevD.88.072001>

G. Aad et al.

Search for new phenomena in events with three charged leptons at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physical review / D, 87(5):052002, and DESY-2013-00426, CERN-PH-EP-2012-310.
<http://dx.doi.org/10.1103/PhysRevD.87.052002>

G. Aad et al.

Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS experiment.

Journal of high energy physics, 2013(10):130, and DESY-2014-00075, CERN-PH-EP-2013-110.
[http://dx.doi.org/10.1007/JHEP10\(2013\)130](http://dx.doi.org/10.1007/JHEP10(2013)130)

G. Aad et al.

Search for new phenomena in the $WW \rightarrow \ell\nu\ell'\nu'$ final state in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 718(3):860 – 878, and DESY-2013-00684, CERN-PH-EP-2012-197; ATLAS-EXOT-2012-11-003.
<http://dx.doi.org/10.1016/j.physletb.2012.11.040>

G. Aad et al.

Search for nonpointing photons in the diphoton and E_T^{miss} final state in $\sqrt{s} = 7$ TeV proton-proton collisions using the ATLAS detector.

Physical review / D, 88(1):012001, and DESY-2013-00405, CERN-PH-EP-2013-049.
<http://dx.doi.org/10.1103/PhysRevD.88.012001>

G. Aad et al.

Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton–proton collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73:2263, and DESY-2013-00458, CERN-PH-EP-2012-256.
<http://dx.doi.org/10.1140/epjc/s10052-012-2263-z>

G. Aad et al.

Search for pair production of heavy top-like quarks decaying to a high- p_T W boson and a b quark in the lepton plus jets final state at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 718(4-5):1284 – 1302, and DESY-2013-00454, CERN-PH-EP-2012-258.
<http://dx.doi.org/10.1016/j.physletb.2012.11.071>

G. Aad et al.

A search for prompt lepton-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 719(4-5):299 – 317, and DESY-2013-00421, CERN-PH-EP-2012-319.
<http://dx.doi.org/10.1016/j.physletb.2013.01.034>

G. Aad et al.

Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013(1):116, and DESY-2013-00428, CERN-PH-EP-2012-291.
[http://dx.doi.org/10.1007/JHEP01\(2013\)116](http://dx.doi.org/10.1007/JHEP01(2013)116)

G. Aad et al.

Search for resonant diboson production in the $WW/WZ \rightarrow \ell\nu jj$ decay channels with the ATLAS detector at $\sqrt{s} = 7$ TeV.

Physical review / D, 87(11):112006, and DESY-2013-00356, CERN-PH-EP-2012-296.
<http://dx.doi.org/10.1103/PhysRevD.87.112006>

G. Aad et al.

Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $4.7fb^{-1}$ of $\sqrt{s} = 7$ TeV proton-proton collision data.

Physical review / D, 87(1):012008, and DESY-2013-00688, CERN-PH-EP-2012-195.
<http://dx.doi.org/10.1103/PhysRevD.87.012008>

G. Aad et al.

Search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Journal of high energy physics, 2013(2):95, and DESY-2013-00452, CERN-PH-EP-2012-323.
[http://dx.doi.org/10.1007/JHEP02\(2013\)095](http://dx.doi.org/10.1007/JHEP02(2013)095)

G. Aad et al.

Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Journal of high energy physics, 2013(6):33, and DESY-2013-00406, CERN-PH-EP-2012-317.
[http://dx.doi.org/10.1007/JHEP06\(2013\)033](http://dx.doi.org/10.1007/JHEP06(2013)033)

G. Aad et al.

Searches for heavy long-lived sleptons and R -hadrons with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 720(4-5):277 – 308, and DESY-2013-00438, CERN-PH-EP-2012-236.
<http://dx.doi.org/10.1016/j.physletb.2013.02.015>

G. Aad et al.

Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC.

The European physical journal / C, 73:2305, and DESY-2013-00700, CERN-PH-EP-2012-005.
<http://dx.doi.org/10.1140/epjc/s10052-013-2305-1>

G. Aad et al.

Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC.

Physics letters / B, 726(1-3):88 – 119, and DESY-2013-00862, CERN-PH-EP-2013-103.
<http://dx.doi.org/10.1016/j.physletb.2013.08.010>

G. Aad et al.

Search for excited electrons and muons in $\sqrt{s} = 8$ TeV proton–proton collisions with the ATLAS detector.

New journal of physics, 15(9):093011, and DESY-2013-00782, CERN-PH-EP-2013-131.
<http://dx.doi.org/10.1088/1367-2630/15/9/093011>

T. Aaltonen et al.

Operational experience, improvements, and performance of the CDF Run II silicon vertex detector.

Nuclear instruments & methods in physics research / A, 729:153 – 181, and DESY-2014-02193.
<http://dx.doi.org/10.1016/j.nima.2013.07.015>

M. Aliev et al.

A forward silicon strip system for the ATLAS HL-LHC upgrade.

Nuclear instruments & methods in physics research / A, 730:210 – 214, and DESY-2014-01944.
<http://dx.doi.org/10.1016/j.nima.2013.05.155>

R. Bates et al.

A combined ultrasonic flow meter and binary vapour mixture analyzer for the ATLAS silicon tracker.

Journal of Instrumentation, 8(02):P02006, and DESY-2014-01960, arXiv:1210.4835.
<http://dx.doi.org/10.1088/1748-0221/8/02/P02006>

M. Bosman et al.

Measurement of top quark polarisation with the ATLAS experiment.

The European physical journal / Web of Conferences, volume 60 of *European physical journal / Web of Conferences*, pages 20015 –, Les Ulis, 2013. 1st Conference on Large Hadron Collider Physics Conference (LHCP 2013), Barcelona(Spain), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20136020015>

R. Bruce et al.

Sources of machine-induced background in the ATLAS and CMS detectors at the CERN Large Hadron Collider.

Nuclear instruments & methods in physics research / A, 729:825 – 840, and DESY-2014-02192.
<http://dx.doi.org/10.1016/j.nima.2013.08.058>

C. Deterre and A. Grohsjean.

Measurement of the combined rapidity and p_T dependence of dijet azimuthal decorrelations in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV.

Physics letters / B, 721(4-5):212 – 219, and DESY-2014-02196.
<http://dx.doi.org/10.1016/j.physletb.2013.03.029>

C. Lange.

Measurement of W/Z boson + heavy quark production at ATLAS.

Proceedings of Science, Proceedings of Science, page 6, Trieste, 2013. 21st International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2013), Marseilles(France), SISSA.

R. Nagai et al.

Evaluation of novel KEK/HPK n-in-p pixel sensors for ATLAS upgrade with testbeam.

Nuclear instruments & methods in physics research / A, volume 699, pages 78 – 83, Amsterdam, 12/05/2011 - 12/08/2011 2013. The 8th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors — Academia Sinica, Taipei, Taiwan, December 5 – 8, 2011, Taipei(Taiwan), North-Holland Publ. Co. <http://dx.doi.org/10.1016/j.nima.2012.04.081>

T. Perez Cavalcanti.

Neural network based cluster reconstruction in the ATLAS silicon Pixel Detector.

Journal of Instrumentation, volume 8, page C04003, London, 2012-07-01 - 2012-07-05 2013. 14th International Workshop on Radiation Imaging Detectors, Figueira da Foz(Portugal), Inst. of Physics.
<http://dx.doi.org/10.1088/1748-0221/8/04/C04003>

I. Rubinskiy.

Irradiation and beam tests qualification for ATLAS IBL Pixel Modules.

Nuclear instruments & methods in physics research / A, volume 699, pages 67 – 71, Amsterdam, 12/05/2011 - 12/08/2011 2013. the 8th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors — Academia Sinica, Taipei(Taiwan), North-Holland Publ. Co. <http://dx.doi.org/10.1016/j.nima.2012.04.078>

P. Starovoitov.

Inclusive jet production measured with ATLAS, and constraints on PDFs.

Proceedings of Science, Proceedings of Science, page 5, Trieste, 2013. 21st International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2013), Marseilles(France), SISSA.

The ATLAS Collaboration.

Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run.

Journal of Instrumentation, 8(7):P07004, and DESY-2013-00401, CERN-PH-EP-2012-313; arXiv:1303.0223. <http://dx.doi.org/10.1088/1748-0221/8/07/P07004>

The ATLAS Collaboration.

Dynamics of isolated-photon plus jet production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Nuclear physics / B, 875:483–535, and DESY-2013-00709, CERN-PH-EP-2013-092. <http://dx.doi.org/10.1016/j.nuclphysb.2013.07.025>

The ATLAS Collaboration.

Evidence for the spin-0 nature of the Higgs boson using ATLAS data.

Physics letters / B, 726(1-3):120 – 144, and DESY-2013-00383, CERN-PH-EP-2013-102. <http://dx.doi.org/10.1016/j.physletb.2013.08.026>

The ATLAS Collaboration.

Measurement of charged-particle event shape variables in inclusive $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector.

Physical review / D, 88(3):032004, and DESY-2013-00549, CERN-PH-EP-2012-178. <http://dx.doi.org/10.1103/PhysRevD.88.032004>

The ATLAS Collaboration.

Measurement of the high-mass Drell–Yan differential cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 725(4-5):223 – 242, and DESY-2013-00829, CERN-PH-EP-2013-064. <http://dx.doi.org/10.1016/j.physletb.2013.07.049>

The ATLAS Collaboration.

Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector.

Physics letters / B, page S0370269313009854, and DESY-2013-01427, CERN-PH-EP-2013-171; arXiv:1310.6527. <http://dx.doi.org/10.1016/j.physletb.2013.12.010>

The ATLAS Collaboration.

Measurement with the ATLAS detector of multi-particle azimuthal correlations in $p+Pb$ collisions at $\sqrt{s_{NN}}=5.02$ TeV.

Physics letters / B, 725(1-3):60 – 78, and DESY-2013-00379, CERN-PH-EP-2013-029. <http://dx.doi.org/10.1016/j.physletb.2013.06.057>

The ATLAS Collaboration.

Multi-channel search for squarks and gluinos in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector at the LHC.

The European physical journal / C, 73:2362, and PHPPUBDB-26436, CERN-PH-EP-2012-330. <http://dx.doi.org/10.1140/epjc/s10052-013-2362-5>

The ATLAS Collaboration.

Search for a heavy narrow resonance decaying to $e\mu$, $e\tau$, or $\mu\tau$ with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC.

Physics letters / B, 723(1-3):15 – 32, and DESY-2013-00373, CERN-PH-EP-2012-326. <http://dx.doi.org/10.1016/j.physletb.2013.04.035>

The ATLAS Collaboration.

Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Journal of high energy physics, 2013:131, and PHPPUBDB-25582, CERN-PH-EP-2012-243. [http://dx.doi.org/10.1007/JHEP01\(2013\)131](http://dx.doi.org/10.1007/JHEP01(2013)131)

The ATLAS Collaboration.

Search for displaced muonic lepton jets from light Higgs boson decay in proton–proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.

Physics letters / B, 721(1-3):32 – 50, and DESY-2013-00685, CERN-PH-EP-2012-241. <http://dx.doi.org/10.1016/j.physletb.2013.02.058>

The ATLAS Collaboration.

Search for long-lived, multi-charged particles in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector.

Physics letters / B, 722(4-5):305 – 323, and DESY-2013-00419, CERN-PH-EP-2012-360; arXiv:1301.5272. <http://dx.doi.org/10.1016/j.physletb.2013.04.036>

The ATLAS Collaboration.

Search for new phenomena in photon+jet events collected in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector.

Physics letters / B, 728:562–578, and DESY-2014-00170, CERN-PH-EP-2013-126; CERN-PH-2013-126. <http://dx.doi.org/10.1016/j.physletb.2013.12.029>

The ATLAS Collaboration.

Search for single b^* -quark production with the ATLAS detector at $\sqrt{s} = 7$ TeV.

Physics letters / B, 721(4-5):171 – 189, and DESY-2013-00420, CERN-PH-EP-2012-344; arXiv:1301.1583. <http://dx.doi.org/10.1016/j.physletb.2013.03.016>

The ATLAS Collaboration.

Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector.

Physics letters / B, 719:261–279, and PHPPUBDB-25909, CERN-PH-EP-2012-308. <http://dx.doi.org/10.1016/j.physletb.2013.01.041>

The ATLAS Collaboration.

Triggers for displaced decays of long-lived neutral particles in the ATLAS detector.

Journal of Instrumentation, 8(07):P07015, and DESY-2013-00450, CERN-PH-EP-2013-047. <http://dx.doi.org/10.1088/1748-0221/8/07/P07015>

E. Yatsenko.

Measurement of the Z boson transverse momentum: directly and using the ϕ_{η}^* variable with ATLAS.

Proceedings of Science, Proceedings of Science, page 6, Trieste, 2013. 21st International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2013), Marseilles(France), SISSA.

CMS

Veröffentlichungen

C. Adloff et al.

Validation of GEANT4 Monte Carlo models with a highly granular scintillator-steel hadron calorimeter.

Journal of Instrumentation, 8(P07005):28, and DESY-2014-01910.
<http://dx.doi.org/10.1088/1748-0221/8/07/P07005>

G. Bauer et al.

10 Gbps TCP/IP streams from the FPGA for the CMS DAQ eventbuilder network.

Journal of Instrumentation, volume 8, pages C12039 – C12039, London, 09/23/2013 - 09/27/2013. Topical Workshop on Electronics for Particle Physics, Perugia(Italy), Inst. of Physics.
<http://dx.doi.org/10.1088/1748-0221/8/12/C12039>

G. Bauer et al.

A Comprehensive Zero-Copy Architecture for High Performance Distributed Data Acquisition Over Advanced Network Technologies for the CMS Experiment.

IEEE transactions on nuclear science, 60(6):4595 – 4602, and DESY-2014-01903.
<http://dx.doi.org/10.1109/TNS.2013.2282340>

S. Chatrchyan et al.

Evidence for associated production of a single top quark and W boson in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 110(2):022003, and DESY-2014-01294, arXiv:1209.3489; CMS-TOP-11-022; CERN-PH-EP-2012-266.
<http://dx.doi.org/10.1103/PhysRevLett.110.022003>

S. Chatrchyan et al.

Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 718(3):752 – 772, and DESY-2014-01310, arXiv:1207.3973; CMS-EWK-11-004; CERN-PH-EP-2012-187.
<http://dx.doi.org/10.1016/j.physletb.2012.10.082>

S. Chatrchyan et al.

Inclusive search for supersymmetry using the razor variables in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 111(8):081802, and DESY-2013-00896, arXiv:1212.6961; CMS-SUS-11-024; CERN-PH-EP-2012-332.
<http://dx.doi.org/10.1103/PhysRevLett.111.081802>

S. Chatrchyan et al.

Interpretation of searches for supersymmetry with simplified models.

Physical review / D, D88(5):052017, and DESY-2014-00045, arXiv:1301.2175; CMS-SUS-11-016; CERN-PH-EP-2012-351.
<http://dx.doi.org/10.1103/PhysRevD.88.052017>

S. Chatrchyan et al.

Jet and underlying event properties as a function of charged-particle multiplicity in proton–proton collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73(12):2674, and DESY-2014-00062, arXiv:1310.4554; CMS-FSQ-12-022; CERN-PH-EP-2013-195.
<http://dx.doi.org/10.1140/epjc/s10052-013-2674-5>

S. Chatrchyan et al.

Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 110(17):172002, and DESY-2013-00313, arXiv:1303.3239 ; CMS-TOP-12-014 ; CERN-PH-EP-2013-033.
<http://dx.doi.org/10.1103/PhysRevLett.110.172002>

S. Chatrchyan et al.

Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73:2339, and DESY-2014-01214, arXiv:1211.2220; CMS-TOP-11-013; CERN-PH-EP-2012-322.
<http://dx.doi.org/10.1140/epjc/s10052-013-2339-4>

S. Chatrchyan et al.

Measurement of masses in the t t-bar system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, C73(7):2494, and DESY-2013-00538, arXiv:1304.5783; CMS-TOP-11-027; CERN-PH-EP-2013-059.
<http://dx.doi.org/10.1140/epjc/s10052-013-2494-7>

S. Chatrchyan et al.

Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, D88(5):052001, and DESY-2013-00959.
<http://dx.doi.org/10.1103/PhysRevD.88.052001>

S. Chatrchyan et al.

Measurement of the $t\bar{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013(5):65, and DESY-2013-00336, arXiv:1302.0508; CMS-TOP-11-007; CERN-PH-EP-2012-358.
[http://dx.doi.org/10.1007/JHEP05\(2013\)065](http://dx.doi.org/10.1007/JHEP05(2013)065)

S. Chatrchyan et al.

Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV.

Physical review letters, 110(4):042301, and DESY-2014-01311, arXiv:1208.2470; CMS-HIN-11-009; CERN-PH-EP-2012-231.
<http://dx.doi.org/10.1103/PhysRevLett.110.042301>

S. Chatrchyan et al.

Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+ \mu^-$ with the CMS Experiment.

Physical review letters, 111(10):101804, and DESY-2013-00958, arXiv:1307.5025; CMS-BPH-13-004-003; CERN-PH-EP-2013-129.
<http://dx.doi.org/10.1103/PhysRevLett.111.101804>

S. Chatrchyan et al.

Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 1312(12):39, and DESY-2014-00061, arXiv:1310.1349; CMS-EWK-11-015; CERN-PH-EP-2013-153.
[http://dx.doi.org/10.1007/JHEP12\(2013\)039](http://dx.doi.org/10.1007/JHEP12(2013)039)

S. Chatrchyan et al.

Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 1312(12):30, and DESY-2014-00063, arXiv:1310.7291; CMS-SMP-13-003; CERN-PH-EP-2013-168.
[http://dx.doi.org/10.1007/JHEP12\(2013\)030](http://dx.doi.org/10.1007/JHEP12(2013)030)

S. Chatrchyan et al.

Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV.

Physical review / C, C87(1):014902, and DESY-2014-01916, CMS-HIN-10-002, CERN-PH-EP-2012-095; arXiv:1204.1409.
<http://dx.doi.org/10.1103/PhysRevC.87.014902>

S. Chatrchyan et al.

Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 1310(10):62, and DESY-2014-00052, arXiv:1305.7389; CMS-FSQ-12-019; CERN-PH-EP-2013-060.
[http://dx.doi.org/10.1007/JHEP10\(2013\)062](http://dx.doi.org/10.1007/JHEP10(2013)062)

S. Chatrchyan et al.

Measurement of the Λ_b^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 07(7):163, and DESY-2014-00049, arXiv:1304.7495; CMS-BPH-11-013; CERN-PH-EP-2013-065.
[http://dx.doi.org/10.1007/JHEP07\(2013\)163](http://dx.doi.org/10.1007/JHEP07(2013)163)

S. Chatrchyan et al.

Measurement of the production cross section for $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings.

Journal of high energy physics, 1310(10):164, and DESY-2013-01292, arXiv:1309.1117; CMS-SMP-12-020; CERN-PH-EP-2013-098.
[http://dx.doi.org/10.1007/JHEP10\(2013\)164](http://dx.doi.org/10.1007/JHEP10(2013)164)

S. Chatrchyan et al.

Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range.

The European physical journal / C, 73(10):2604, and DESY-2014-00050, arXiv:1304.7498; CMS-QCD-11-003; CERN-PH-EP-2013-057.
<http://dx.doi.org/10.1140/epjc/s10052-013-2604-6>

S. Chatrchyan et al.

Measurement of the sum of WW and WZ production with W +dijet events in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73:2283, and DESY-2014-01223, arXiv:1210.7544; CMS-SMP-12-015; CERN-PH-EP-2012-311.
<http://dx.doi.org/10.1140/epjc/s10052-013-2283-3>

S. Chatrchyan et al.

Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton + jets final states.

Physics letters / B, 720(1-3):83 – 104, and DESY-2014-01126, arXiv:1212.6682; CMS-TOP-11-003; CERN-PH-EP-2012-285.
<http://dx.doi.org/10.1016/j.physletb.2013.02.021>

S. Chatrchyan et al.

Measurement of the $t\bar{t}$ production cross section in the τ +jets channel in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, 73(4):2386, and DESY-2013-00340, arXiv:1301.5755; CMS-TOP-11-004; CERN-PH-EP-2012-374.
<http://dx.doi.org/10.1140/epjc/s10052-013-2386-x>

S. Chatrchyan et al.

Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 1310(10):167, and DESY-2014-00060, arXiv:1308.3879; CMS-TOP-11-020; CERN-PH-EP-2013-133.
[http://dx.doi.org/10.1007/JHEP10\(2013\)167](http://dx.doi.org/10.1007/JHEP10(2013)167)

S. Chatrchyan et al.

Measurement of the W^+W^- Cross section in pp Collisions at $\sqrt{s} = 7$ TeV and Limits on Anomalous $WW\gamma$ and WWZ couplings.

The European physical journal / C, 73(10):2610, and DESY-2014-00053, arXiv:1306.1126; CMS-SMP-12-005; CERN-PH-EP-2013-075.
<http://dx.doi.org/10.1140/epjc/s10052-013-2610-8>

S. Chatrchyan et al.

Measurement of the $X(3872)$ production cross section via decays to $J/\psi\pi + \pi^-$ in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013(4):154, and DESY-2013-00321, arXiv:1302.3968 ; CMS-BPH-11-011 ; CERN-PH-EP-2013-014.
[http://dx.doi.org/10.1007/JHEP04\(2013\)154](http://dx.doi.org/10.1007/JHEP04(2013)154)

S. Chatrchyan et al.

Measurement of the Y1S, Y2S and Y3S polarizations in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 110(8):081802, and DESY-2014-01296, arXiv:1209.2922; CMS-BPH-11-023; CERN-PH-EP-2012-205.
<http://dx.doi.org/10.1103/PhysRevLett.110.081802>

S. Chatrchyan et al.

Measurement of the ZZ production cross section and search for anomalous couplings in $2l2l'$ final states in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013:63, and DESY-2014-01198, arXiv:1211.4890; CMS-SMP-12-007; CERN-PH-EP-2012-336.
[http://dx.doi.org/10.1007/JHEP01\(2013\)063](http://dx.doi.org/10.1007/JHEP01(2013)063)

S. Chatrchyan et al.

Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the CMS detector.

Physical review / D, 87(11):112002, and DESY-2014-01128, arXiv:1212.6660; CMS-QCD-11-004; CERN-PH-EP-2012-343.
<http://dx.doi.org/10.1103/PhysRevD.87.112002>

S. Chatrchyan et al.

Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, D87(1):012006, and DESY-2014-01299, arXiv:1209.1805; CMS-FWD-10-004; CERN-PH-EP-2012-248.
<http://dx.doi.org/10.1103/PhysRevD.87.012006>

S. Chatrchyan et al.

Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV.

Journal of high energy physics, 2013(6):81, and DESY-2013-00310, arXiv:1303.4571; CMS-HIG-12-036; CERN-PH-EP-2013-035.
[http://dx.doi.org/10.1007/JHEP06\(2013\)081](http://dx.doi.org/10.1007/JHEP06(2013)081)

S. Chatrchyan et al.

Rapidity distributions in exclusive $Z + \text{jet}$ and $\gamma + \text{jet}$ events in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, D88(11):112009, and DESY-2014-01754, arXiv:1310.3082; CMS-SMP-12-004; CERN-PH-EP-2013-169.
<http://dx.doi.org/10.1103/PhysRevD.88.112009>

S. Chatrchyan et al.

Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC.

The European physical journal / C, 73(6):2469, and DESY-2013-00304, arXiv:1304.0213; CMS-HIG-12-034; CERN-PH-EP-2013-050.
<http://dx.doi.org/10.1140/epjc/s10052-013-2469-8>

S. Chatrchyan et al.

Search for a W' boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 718(4-5):1229 – 1251, and DESY-2014-01312, arXiv:1208.0956; CMS-EXO-12-001; CERN-PH-EP-2012-192.
<http://dx.doi.org/10.1016/j.physletb.2012.12.008>

S. Chatrchyan et al.

Search for contact interactions in $\mu^+\mu^-$ events in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, 87(3):032001, and DESY-2014-01144, arXiv:1212.4563; CMS-EXO-11-009; CERN-PH-EP-2012-329.
<http://dx.doi.org/10.1103/PhysRevD.87.032001>

S. Chatrchyan et al.

Search for contact interactions using the inclusive jet p_T spectrum in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, 87(5):052017, and DESY-2013-00341, arXiv:1301.5023; CMS-EXO-11-010; CERN-PH-EP-2013-002.
<http://dx.doi.org/10.1103/PhysRevD.87.052017>

S. Chatrchyan et al.

Search for excited leptons in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 720(4-5):309 – 329, and DESY-2014-01286, arXiv:1210.2422; CMS-EXO-11-034; CERN-PH-EP-2012-261.
<http://dx.doi.org/10.1016/j.physletb.2013.02.031>

S. Chatrchyan et al.

Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013:36, and DESY-2014-01197, arXiv:1211.5779; CMS-EXO-12-014; CERN-PH-EP-2012-312.
[http://dx.doi.org/10.1007/JHEP02\(2013\)036](http://dx.doi.org/10.1007/JHEP02(2013)036)

S. Chatrchyan et al.

Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV.

Physics letters / B, 718(4-5):1252 – 1272, and DESY-2014-01924, CMS-TOP-11-028, CERN-PH-EP-2012-206; arXiv:1208.0957.
<http://dx.doi.org/10.1016/j.physletb.2012.12.045>

S. Chatrchyan et al.

Search for fractionally charged particles in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, D87(9):092008, and DESY-2014-01808, CMS-EXO-11-074; CERN-PH-EP-2012-282; arXiv:1210.2311.
<http://dx.doi.org/10.1103/PhysRevD.87.092008>

S. Chatrchyan et al.

Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013(1):154, and DESY-2014-01226, arXiv:1210.7471; CMS-B2G-12-004; CERN-PH-EP-2012-309.
[http://dx.doi.org/10.1007/JHEP01\(2013\)154](http://dx.doi.org/10.1007/JHEP01(2013)154)

S. Chatrchyan et al.

Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV.

Journal of high energy physics, 1307(7):178, and DESY-2013-00897, arXiv:1303.5338; CMS-EXO-12-009; CERN-PH-EP-2013-043.
[http://dx.doi.org/10.1007/JHEP07\(2013\)178](http://dx.doi.org/10.1007/JHEP07(2013)178)

S. Chatrchyan et al.

Search for narrow resonances and quantum black holes in inclusive and b -tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 1301(1):13, and DESY-2014-01925, CMS-EXO-11-094; CERN-PH-EP-2012-277; arXiv:1210.2387.
[http://dx.doi.org/10.1007/JHEP01\(2013\)013](http://dx.doi.org/10.1007/JHEP01(2013)013)

S. Chatrchyan et al.

Search for narrow resonances using the dijet mass spectrum in pp collisions at $\sqrt{s} = 8$ TeV.

Physical review / D, D87(11):114015, and DESY-2014-00046, arXiv:1302.4794; CMS-EXO-12-016; CERN-PH-EP-2013-015.
<http://dx.doi.org/10.1103/PhysRevD.87.114015>

S. Chatrchyan et al.

Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 718(3):815 – 840, and DESY-2014-01314, arXiv:1206.3949; CMS-SUS-11-011; CERN-PH-EP-2012-156. <http://dx.doi.org/10.1016/j.physletb.2012.11.036>

S. Chatrchyan et al.

Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of high energy physics, 2013:111, and DESY-2014-01199, arXiv:1211.4784; CMS-SUS-12-001; CERN-PH-EP-2012-321. [http://dx.doi.org/10.1007/JHEP03\(2013\)111](http://dx.doi.org/10.1007/JHEP03(2013)111)

S. Chatrchyan et al.

Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC.

Physical review / D, 87(7):072005, and DESY-2013-00325, arXiv:1302.2812; CMS-EXO-12-010; CERN-PH-EP-2013-010. <http://dx.doi.org/10.1103/PhysRevD.87.072005>

S. Chatrchyan et al.

Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 110(14):141802, and DESY-2013-00339, arXiv:1302.0531; CMS-EXO-11-016; CERN-PH-EP-2013-007. <http://dx.doi.org/10.1103/PhysRevLett.110.141802>

S. Chatrchyan et al.

Search for pair production of third-generation leptoquarks and top squarks in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review letters, 110(8):081801, and DESY-2014-01234. <http://dx.doi.org/10.1103/PhysRevLett.110.081801>

S. Chatrchyan et al.

Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7$ TeV.

The European physical journal / C, C73(7):2493, and DESY-2013-00543, arXiv:1301.3792; CMS-SUS-12-004; CERN-PH-EP-2012-252. <http://dx.doi.org/10.1140/epjc/s10052-013-2493-8>

S. Chatrchyan et al.

Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network.

Physical review / D, 87(7):072001, and DESY-2013-00361, arXiv:1301.0916; CMS-SUS-11-018; CERN-PH-EP-2012-341. <http://dx.doi.org/10.1103/PhysRevD.87.072001>

S. Chatrchyan et al.

Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 719(1-3):42 – 61, and DESY-2014-01288, arXiv:1210.2052; CMS-SUS-12-014; CERN-PH-EP-2012-272. <http://dx.doi.org/10.1016/j.physletb.2012.12.055>

S. Chatrchyan et al.

Search for supersymmetry in final states with a single lepton, b -quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, 87(5):052006, and DESY-2014-01211, arXiv:1211.3143; CMS-SUS-11-028; CERN-PH-EP-2012-316. <http://dx.doi.org/10.1103/PhysRevD.87.052006>

S. Chatrchyan et al.

Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b -quark jets in 7 TeV pp collisions using the variable α_T .

Journal of high energy physics, 2013:77, and DESY-2014-01221, arXiv:1210.8115; CMS-SUS-11-022; CERN-PH-EP-2012-290. [http://dx.doi.org/10.1007/JHEP01\(2013\)077](http://dx.doi.org/10.1007/JHEP01(2013)077)

S. Chatrchyan et al.

Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum.

The European physical journal / C, 73:2404, and DESY-2014-01131, arXiv:1212.6428; CMS-SUS-12-010; CERN-PH-EP-2012-348. <http://dx.doi.org/10.1140/epjc/s10052-013-2404-z>

S. Chatrchyan et al.

Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC.

Journal of high energy physics, 2013(5):145, and DESY-2013-00317, arXiv:1303.0763; CMS-HIG-12-035; CERN-PH-EP-2013-027. [http://dx.doi.org/10.1007/JHEP05\(2013\)145](http://dx.doi.org/10.1007/JHEP05(2013)145)

S. Chatrchyan et al.

Search for top-squark pair production in the single-lepton final state in pp collisions at $\sqrt{s} = 8$ TeV.

The European physical journal / C, 73(12):2677, and DESY-2014-01039, arXiv:1308.1586; CMS-SUS-13-011; CERN-PH-EP-2013-148. <http://dx.doi.org/10.1140/epjc/s10052-013-2677-2>

S. Chatrchyan et al.

Search for top squarks in R -parity-violating supersymmetry using three or more leptons and b -tagged jets.

Physical review letters, 111(22):221801, and DESY-2014-00055, arXiv:1306.6643; CMS-SUS-13-003; CERN-PH-EP-2013-093. <http://dx.doi.org/10.1103/PhysRevLett.111.221801>

S. Chatrchyan et al.

Search for Z' resonances decaying to $t\bar{t}$ in dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV.

Physical review / D, 87(7):072002, and DESY-2014-01210, arXiv:1211.3338; CMS-TOP-11-010; CERN-PH-EP-2012-324. <http://dx.doi.org/10.1103/PhysRevD.87.072002>

S. Chatrchyan et al.

Search in leptonic channels for heavy resonances decaying to long-lived neutral particles.

Journal of high energy physics, 2013:85, and DESY-2014-01213, arXiv:1211.2472; CMS-EXO-11-101; CERN-PH-EP-2012-304. [http://dx.doi.org/10.1007/JHEP02\(2013\)085](http://dx.doi.org/10.1007/JHEP02(2013)085)

S. Chatrchyan et al.

Searches for long-lived charged particles in pp collisions at $\sqrt{s}=7$ and 8 TeV.

Journal of high energy physics, 1307(7):122, and DESY-2013-00542, arXiv:1305.0491; CMS-EXO-12-026; CERN-PH-EP-2013-073.
[http://dx.doi.org/10.1007/JHEP07\(2013\)122](http://dx.doi.org/10.1007/JHEP07(2013)122)

S. Chatrchyan et al.

Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV.

Physical review letters, 111(21):211804, and DESY-2014-01755, arXiv:1309.2030; CMS-B2G-13-001-003; CERN-PH-EP-2013-162.
<http://dx.doi.org/10.1103/PhysRevLett.111.211804>

S. Chatrchyan et al.

Studies of jet mass in dijet and W/Z + jet events.

Journal of high energy physics, 2013(5):90, and DESY-2013-00307, arXiv:1303.4811; CMS-SMP-12-019; CERN-PH-EP-2013-016.
[http://dx.doi.org/10.1007/JHEP05\(2013\)090](http://dx.doi.org/10.1007/JHEP05(2013)090)

S. Chatrchyan et al.

Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV.

Physics letters / B, B718(3):773 – 794, and DESY-2014-01908, CMS-HIN-11-010, CERN-PH-EP-2012-089; arXiv:1205.0206.
<http://dx.doi.org/10.1016/j.physletb.2012.11.003>

S. Chatrchyan et al.

Study of exclusive two-photon production of W^+W^- in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings.

Journal of high energy physics, 1307(7):116, and DESY-2013-00540, CERN-PH-EP-2013-084; CMS-FSQ-12-010; arXiv:1305.5596.
[http://dx.doi.org/10.1007/JHEP07\(2013\)116](http://dx.doi.org/10.1007/JHEP07(2013)116)

S. Chatrchyan et al.

Study of the Mass and Spin-Parity of the Higgs Boson Candidate Via Its Decays to Z Boson Pairs.

Physical review letters, 110(8):081803, and DESY-2014-01121, arXiv:1212.6639; CMS-HIG-12-041; CERN-PH-EP-2012-372.
<http://dx.doi.org/10.1103/PhysRevLett.110.081803>

S. Chatrchyan et al.

Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76$, and 7 TeV.

Journal of high energy physics, 1304(4):72, and DESY-2014-01917, S-FWD-11-003, CERN-PH-EP-2013-012; arXiv:1302.2394.
[http://dx.doi.org/10.1007/JHEP04\(2013\)072](http://dx.doi.org/10.1007/JHEP04(2013)072)

S. Chatrchyan et al.

Angular analysis and branching fraction measurement of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$.

Physics letters / B, B727(1-3):77 – 100, and DESY-2014-00059, arXiv:1308.3409; CMS-BPH-11-009; CERN-PH-EP-2013-152.
<http://dx.doi.org/10.1016/j.physletb.2013.10.017>

S. Chatrchyan et al.

Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV.

Journal of Instrumentation, 8(09):P09009, and DESY-2014-00054, arXiv:1306.2016; CMS-EGM-11-001; CERN-PH-EP-2013-097.
<http://dx.doi.org/10.1088/1748-0221/8/09/P09009>

S. Chatrchyan et al.

Erratum: search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV.

Journal of high energy physics, 2013:41, and DESY-2014-01139, arXiv:1212.6194; CMS-SUS-12-017; CERN-PH-EP-2012-361.
[http://dx.doi.org/doi:10.1007/JHEP07\(2013\)041](http://dx.doi.org/doi:10.1007/JHEP07(2013)041)

S. Chatrchyan et al.

Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7$ TeV.

Physics letters / B, 722(1-3):5 – 27, and DESY-2014-01231, arXiv:1210.6718; CMS-FWD-11-001; CERN-PH-EP-2012-293.
<http://dx.doi.org/10.1016/j.physletb.2013.03.024>

S. Chatrchyan et al.

Measurement of the prompt J/ψ and $\psi(2S)$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, 727(4-5):381 – 402, and DESY-2014-00058, arXiv:1307.6070; CMS-BPH-13-003-003; CERN-PH-EP-2013-140.
<http://dx.doi.org/10.1016/j.physletb.2013.10.055>

S. Chatrchyan et al.

Measurement of the $Y(1S)$, $Y(2S)$, and $Y(3S)$ cross sections in pp collisions at $\sqrt{s} = 7$ TeV.

Physics letters / B, B727(1-3):101 – 125, and DESY-2014-00048, arXiv:1303.5900; CMS-BPH-11-001; CERN-PH-EP-2012-373.
<http://dx.doi.org/10.1016/j.physletb.2013.10.033>

S. Chatrchyan et al.

Measurement of W^+W^- and ZZ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV.

Physics letters / B, 721(4-5):190 – 211, and DESY-2013-00506, arXiv:1301.3792; CMS-SUS-12-004; CERN-PH-EP-2012-252.
<http://dx.doi.org/10.1016/j.physletb.2013.03.027>

S. Chatrchyan et al.

Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions.

Physics letters / B, B724(4-5):213 – 240, and DESY-2013-00541, arXiv:1305.0609; CMS-HIN-13-002; CERN-PH-EP-2013-077.
<http://dx.doi.org/10.1016/j.physletb.2013.06.028>

S. Chatrchyan et al.

Search for a Higgs boson decaying into a Z and a photon in pp collisions at $\sqrt{s} = 7$ and 8 TeV.

Physics letters / B, 726(4-5):587 – 609, and DESY-2014-00057, arXiv:1307.5515; CMS-HIG-13-006; CERN-PH-EP-2013-113.
<http://dx.doi.org/10.1016/j.physletb.2013.09.057>

- S. Chatrchyan et al.
Search for a new bottomonium state decaying to $\Upsilon(1S)\pi^+\pi^-$ in pp collisions at $\sqrt{s} = 8$ TeV.
Physics letters / B, 727(1-3):57 – 76, and DESY-2013-01294, arXiv:1309.0250; CMS-BPH-11-016; CERN-PH-EP-2013-157.
<http://dx.doi.org/10.1016/j.physletb.2013.10.016>
- S. Chatrchyan et al.
Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states.
Physics letters / B, 726(4-5):564 – 586, and DESY-2014-01228, arXiv:1210.7619; CMS-EXO-12-012; CERN-PH-EP-2012-292.
<http://dx.doi.org/10.1016/j.physletb.2013.09.009>
- S. Chatrchyan et al.
Search for anomalous production of highly boosted Z bosons decaying to dimuons in pp collisions at $\sqrt{s} = 7$ TeV.
Physics letters / B, 722(1-3):28 – 47, and DESY-2014-01293, arXiv:1210.0867; CMS-EXO-11-025; CERN-PH-EP-2012-294.
<http://dx.doi.org/10.1016/j.physletb.2013.03.037>
- S. Chatrchyan et al.
Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV.
Physics letters / B, 725(4-5):243 – 270, and DESY-2014-00051, arXiv:1305.2390; CMS-SUS-12-024; CERN-PH-EP-2013-076.
<http://dx.doi.org/10.1016/j.physletb.2013.06.058>
- S. Chatrchyan et al.
Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV and $\sqrt{s} = 8$ TeV.
Physics letters / B, 720:63–82, and DESY-2014-01150, arXiv:1212.6175; CMS-EXO-12-015; CERN-PH-EP-2012-364.
<http://dx.doi.org/10.1016/j.physletb.2013.02.003>
- S. Chatrchyan et al.
Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV.
Physics letters / B, 723(4-5):280 – 301, and DESY-2014-01195, arXiv:1212.1910; CMS-EXO-11-095; CERN-PH-EP-2012-356.
<http://dx.doi.org/10.1016/j.physletb.2013.05.040>
- S. Chatrchyan et al.
Search for long-lived particles decaying to photons and missing energy in proton-proton collisions at $\sqrt{s} = 7$ TeV.
Physics letters / B, 722(4-5):273 – 294, and DESY-2014-01196, arXiv:1212.1838; CMS-EXO-11-035; CERN-PH-EP-2012-342.
<http://dx.doi.org/10.1016/j.physletb.2013.04.027>
- S. Chatrchyan et al.
Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV.
Journal of high energy physics, 1303:037, and DESY-2014-01920, CMS-SUS-12-017; CERN-PH-EP-2012-361; arXiv:1212.6194.
[http://dx.doi.org/10.1007/JHEP03\(2013\)037](http://dx.doi.org/10.1007/JHEP03(2013)037)
- P. Cipriano et al.
Higgs boson as a gluon trigger.
Physical review / D, 88(9):097501, and DESY-2014-01913.
<http://dx.doi.org/10.1103/PhysRevD.88.097501>
- T. C. collaboration et al.
Identification of b-quark jets with the CMS experiment.
Journal of Instrumentation, 8(04):P04013, and DESY-2014-01200, arXiv:1211.4462; CMS-BTV-12-001; CERN-PH-EP-2012-262.
<http://dx.doi.org/10.1088/1748-0221/8/04/P04013>
- C. Diez Pardos.
Measurement of Jet Multiplicity Distributions in Top Quark Pair Events with Two Leptons in the Final State at a center of mass energy of 7 TeV.
The European physical journal / Web of Conferences, volume 49, page 18007, Les Ulis, 11/12/2012 – 11/16/2012 2013. Hadron Collider Physics Symposium 2012, Kyoto(Japan), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20134918007>
- C. Diez Pardos.
Object definition and performance at CMS.
Journal of physics / Conference Series, volume 452, page 012015, Bristol, 09/16/2012 – 09/21/2012 2013. 5th International Workshop on Top Quark Physics, Winchester(United Kingdom), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/452/1/012015>
- S. K. Dooling, P. Gunnellini, F. Hautmann, and H. Jung.
Longitudinal momentum shifts, showering, and nonperturbative corrections in matched next-to-leading-order shower event generators.
Physical review / D, 87(9):094009, and DESY-2013-01185, DESY 12-166, OUTP-12-19P, arXiv:1212.6164.
<http://dx.doi.org/10.1103/PhysRevD.87.094009>
- G. Flucke.
Operation and Performance of the CMS Silicon Strip Tracker.
Proceedings of Science, Trieste, 09/16/2012 – 09/21/2013 2013. 21st International Workshop on Vertex Detectors, Jeju(Korea), SISSA.
- J. Gao, M. Guzzi, and P. M. Nadolsky.
Charm quark mass dependence in a global QCD analysis.
The European physical journal / C, 73:2541, and DESY-2014-00019.
<http://dx.doi.org/10.1140/epjc/s10052-013-2541-4>
- V. Guzey, M. Guzzi, P. M. Nadolsky, M. Strikman, and B. Wang.
Massive neutral gauge boson production as a probe of nuclear modifications of parton distributions at the LHC.
The European physical journal / A, 49(3):35, and DESY-2014-01894.
<http://dx.doi.org/10.1140/epja/i2013-13035-6>
- M. Guzzi, K. Lipka, and S.-O. Moch.
Top-quark production at the LHC: differential cross section and phenomenological applications.
Proceedings of Science, Trieste, 04/22/2013 – 04/26/2013 2013. XXI. International Workshop on Deep-Inelastic Scattering and Related Subjects, Marseille(France), SISSA.
- J. Kieseler.
Measurement of the tt production cross section in the dilepton channel in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS experiment.
Journal of physics / Conference Series, volume 452, page 012029, Bristol, 09/16/2013 – 09/21/2013 2013. 5th International Workshop on Top Quark Physics, Winchester(United Kingdom), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/452/1/012029>

K. Lipka.

Summary of the Structure Functions Working Group.
Proceedings of Science, Trieste, 04/22/2013 - 04/26/2013
 2013. XXI. International Workshop on Deep-Inelastic
 Scattering and Related Subjects, Marseille(France), SISSA.

I. Marfin.

Search for Higgs boson production in association with b quarks at CMS in pp collisions.
Acta physica Slovaca, page 403, Bratislava, 09/12/2012 -
 09/15/2012 2013. 32nd International Symposium on Physics
 in Collision, Strbske Pleso(Slovakia), Inst. of Physics, Slovak
 Acad. of Sciences.

S. Naumann-Emme.

**Latest Constraints from Jet Measurements on Parton
 Distribution Functions and on the Strong Coupling Constant.**
The European physical journal / Web of Conferences,
 volume 49, page 16006, Les Ulis, 11/12/2012 - 11/16/2012
 2013. 23rd Hadron Collider Physics Symposium,
 Kyoto(Japan), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20134916006>

S. Naumann-Emme.

WG5 Highlights - Heavy Flavours.
Proceedings of Science, volume 023, Trieste, 04/22/2013 -
 04/26/2013 2013. XXI. International Workshop on
 Deep-Inelastic Scattering and Related Subjects,
 Marseille(France), SISSA.

R. Placakyte.

HERAFitter - an open source QCD fit framework.
Proceedings of Science, volume 044, Trieste, 04/22/2013 -
 04/26/2013 2013. XXI. International Workshop on
 Deep-Inelastic Scattering and Related Subjects,
 Marseille(France), SISSA.

The CMS Collaboration.

**Event shapes and azimuthal correlations in events in pp
 collisions at $\sqrt{s} = 7$ TeV.**
Physics letters / B, 722(4-5):238 – 261, and
 DESY-2013-00360, arXiv:1301.1646 ; CMS-EWK-11-021 ;
 CERN-PH-EP-2013-001.
<http://dx.doi.org/10.1016/j.physletb.2013.04.025>

The CMS Collaboration.

**Measurement of the elliptic anisotropy of charged particles
 produced in PbPb collisions at nucleon-nucleon center-of-mass
 energy = 2.76 TeV.**
Physical review / Special topics / Accelerators and beams,
 87:014902, and PHPPUBDB-24749, CMS-HIN-10-002.

The CMS Collaboration.

**Observation of long-range near-side angular correlations in
 proton-lead collisions at the LHC.**
Physics letters / B, 718:795–814, and PHPPUBDB-24901,
 CMS-HIN-12-005.
<http://dx.doi.org/10.1016/j.physletb.2012.11.025>

The CMS collaboration.

**The performance of the CMS muon detector in proton-proton
 collisions at $\sqrt{s} = 7$ TeV at the LHC.**
Journal of Instrumentation, 8(11):P11002, and
 DESY-2014-00056, CMS-MUO-11-001;
 CERN-PH-EP-2013-072; arXiv:1306.6905.
<http://dx.doi.org/10.1088/1748-0221/8/11/P11002>

The CMS Collaboration.

**Search for a Higgs boson decaying into a b-quark pair and
 produced in association with b quarks in proton-proton
 collisions at 7 TeV.**
Physics letters / B, 722(4-5):207 – 232, and
 DESY-2013-00323, arXiv:1302.2892; CMS-HIG-12-033;
 CERN-PH-EP-2012-375.
<http://dx.doi.org/10.1016/j.physletb.2013.04.017>

The CMS Collaboration.

**Search for a narrow spin-2 resonance decaying to a pair of Z
 vector bosons in the semileptonic final state.**
Physics letters / B, 718:1208–1228, and PHPPUBDB-24891,
 CMS-EXO-11-102.
<http://dx.doi.org/10.1016/j.physletb.2012.11.063>

The CMS Collaboration.

**Search for narrow resonances and quantum black holes in
 inclusive and b-tagged dijet mass spectra from pp collisions at
 $\sqrt{s} = 7$ TeV.**
Journal of high energy physics, 1301:013, and
 PHPPUBDB-24897, CMS-EXO-11-094.

The CMS Collaboration.

**Searches for Higgs bosons in pp collisions at in the context of
 four-generation and fermiophobic models.**
Physics letters / B, 06:S0370269313005182, and
 DESY-2013-00333, arXiv:1302.1764; CMS-HIG-12-013;
 CERN-PH-EP-2013-011.
<http://dx.doi.org/10.1016/j.physletb.2013.06.043>

The CMS Collaboration.

**Studies of jet quenching using isolated-photon+jet correlations
 in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV.**
Chemical physics letters, 718:773–794, and
 PHPPUBDB-24758, CMS-HIN-11-010.

R. Walsh.

Searches for Higgs bosons decaying to bb in CMS.
The European physical journal / Web of Conferences,
 volume 49, pages 1–4, Les Ulis, 11/12/2012 - 11/16/2012
 2013. Hadron Collider Physics Symposium 2012,
 Kyoto(Japan), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20134912012>

S. Chatrchyan et al.

**Determination of the top-quark pole mass and strong coupling
 constant from the $t\bar{t}$ production cross section in pp collisions at
 $\sqrt{s} = 7$ TeV.**
Physics letters / B, 728:496 – 517, and DESY-2014-01040,
 arXiv:1307.1907; CMS-TOP-12-022; CERN-PH-EP-2013-121.
<http://dx.doi.org/10.1016/j.physletb.2013.12.009>

Dissertationen

A. Bethani.

**Neutral Higgs boson searches in the $H \rightarrow \tau\tau - \mu\mu$ decay
 channel.**
 University of Karlsruhe, Karlsruhe, 2013.

J. Lange.

**Differential Top-Quark-Pair Cross Sections in pp Collisions at
 $\sqrt{s} = 7$ TeV with CMS and Charge Multiplication in
 Highly-Irradiated Silicon Sensors.**
 Universität Hamburg, 2013.

H. Schettler.

The Event-Mixing Technique for Modeling the tt Background in a Search for Supersymmetry in the Di-Lepton Channel.
University of Hamburg, Hamburg, 2013.

J. Zhang.

X-ray Radiation Damage Studies and Design of a Silicon Pixel Sensor for Science at the XFEL.
University of Hamburg, Hamburg, 2013.

Masterarbeiten

C. Neubueser.

Impact of Irradiations by Protons with different Energies on Silicon Sensors.
University of Hamburg, Hamburg, 2013.

Linear Collider

Veröffentlichungen

C. Adloff et al.

Validation of GEANT4 Monte Carlo models with a highly granular scintillator-steel hadron calorimeter.

Journal of Instrumentation, 8(P07005):28, and DESY-2014-01910.

<http://dx.doi.org/10.1088/1748-0221/8/07/P07005>

J. Grebenyuk, A. Martinez de la Ossa, T. Mehrling, and J. Osterhoff.

Beam-driven plasma-based acceleration of electrons with density down-ramp injection at FLASHForward.

Nuclear instruments & methods in physics research / A, page S0168900213014356, Amsterdam, 06/02/2013 - 06/07/2013 2013. 1st European Advanced Accelerator Concepts Workshop, La Biodola, Isola d'Elba(Italy), North-Holland Publ. Co. <http://dx.doi.org/10.1016/j.nima.2013.10.054>

A. Martinez de la Ossa et al.

High-quality electron beams from field-induced ionization injection in the strong blow-out regime of beam-driven plasma accelerators.

Nuclear instruments & methods in physics research / A, volume 740, pages 231–235, Amsterdam, 06/02/2013 - 06/07/2013 2013. 1st European Advanced Accelerator Concepts Workshop, La Biodola, Isola d'Elba(Italy), North-Holland Publ. Co.

<http://dx.doi.org/10.1016/j.nima.2013.10.016>

A. Martinez de la Ossa, J. Grebenyuk, T. Mehrling, L. Schaper, and J. Osterhoff.

High-Quality Electron Beams from Beam-Driven Plasma Accelerators by Wakefield-Induced Ionization Injection.

Physical review letters, 111(24):245003–1 – 245003–5, and DESY-2014-00540.

<http://dx.doi.org/10.1103/PhysRevLett.111.245003>

A. Navitski, S. Lagotzky, D. Reschke, X. Singer, and G. Müller.

Field emitter activation on cleaned crystalline niobium surfaces relevant for superconducting rf technology.

Physical review / Special topics / Accelerators and beams, 16(11):112001 – 112008, and DESY-2014-00549.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.112001>

J.-P. Schwinkendorf, S. Wunderlich, L. Schaper, B. Schmidt, and J. Osterhoff.

TADPOLE for longitudinal electron-bunch diagnostics based on electro-optic upconversion.

Nuclear instruments & methods in physics research / A, page S016890021301721X, Amsterdam, 06/02/2013 - 06/07/2013 2013. 1st European Advanced Accelerator Concepts Workshop, La Biodola, Isola d'Elba(Italy), North-Holland Publ. Co. <http://dx.doi.org/10.1016/j.nima.2013.12.030>

Dissertationen

M. K. Bock.

Measuring the Electron Bunch Timing with Femtosecond Resolution at FLASH.

Universität Hamburg, 2013.

F. Schlander.

Study of Quality and Field Limitation of Superconducting 1.3 GHz 9-Cell RF-Cavities at DESY.

Universität Hamburg, Hamburg, 2013.

Diplomarbeiten

S. Schefer.

Aufbau und Charakterisierung eines balancierten optischen Kreuzkorrelators zur Synchronisation von Titan:Saphir-Lasersystemen mit Femtosekundenpräzision..

Universität Hamburg, 2013.

Masterarbeiten

L. Goldberg.

Laser-Based Discharge Ignition for Capillary Waveguides.

Universität Hamburg, Hamburg, 2013.

FLC

Veröffentlichungen

C. Adloff et al.

Validation of GEANT4 Monte Carlo models with a highly granular scintillator-steel hadron calorimeter.

Journal of Instrumentation, 8(P07005):28, and DESY-2014-01910.

<http://dx.doi.org/10.1088/1748-0221/8/07/P07005>

C. Adloff et al.

Track segments in hadronic showers in a highly granular scintillator-steel hadron calorimeter.

Journal of Instrumentation, 8(09):1–22, and DESY-2014-00785.

<http://dx.doi.org/10.1088/1748-0221/8/09/P09001>

H. Baer and J. List.

Post-LHC8 supersymmetry benchmark points for ILC physics.

Physical review / D, 88(5):1–29, and DESY-2014-00605.

<http://dx.doi.org/10.1103/PhysRevD.88.055004>

T. Behnke, R. Diener, C. Rosemann, and L. Steder.
A Novel Self-supporting GEM-based Amplification Structure for a Time Projection Chamber at the ILC.
Journal of Instrumentation, 8(12):P12009, and DESY-2014-00973, DESY-12-212.
<http://dx.doi.org/10.1088/1748-0221/8/12/P12009>

T. Behnke, F. J. Mueller, A. Muennich, and K. Zenker.
GEM module design for the ILD TPC.
Journal of Instrumentation, volume 8, page C10010, London, 07/01/2013 - 07/06/2013 2013. 3rd Conference on Micro-Pattern Gaseous Detectors & RD51 Collaboration meeting, Zaragoza(Spain), Inst. of Physics.
<http://dx.doi.org/10.1088/1748-0221/8/10/C10010>

C. M. Berggren et al.
Nailing Natural SUSY: Higgsino Parameter Determination at the ILC.
Proceedings of Science, Trieste, 07/18/2013 - 07/24/2013 2013. European Physical Society Conference on High Energy Physics, 2013, Stockholm(Sweden), SISSA.

M. Berggren et al.
Tackling light higgsinos at the ILC.
The European physical journal / C, 73(12):1–22, and DESY-2014-00555, DESY 13-098, arXiv:1307.3566.
<http://dx.doi.org/10.1140/epjc/s10052-013-2660-y>

A. Bharucha, A. Fowler, G. Moortgat-Pick, and G. Weiglein.
Consistent on shell renormalisation of electroweakinos in the complex MSSM: LHC and LC predictions.
Journal of high energy physics, 2013:53, and DESY-2013-01090, DESY-12-015.
[http://dx.doi.org/10.1007/JHEP05\(2013\)053](http://dx.doi.org/10.1007/JHEP05(2013)053)

P. Goettlicher.
Simulations and Measurements for a concept of powering CALICE-AHCAL at a train-cycled accelerator.
Journal of Instrumentation, volume 8, pages C01054 – C01054, London, 09/17/2012 - 09/21/2012 2013. Topical Workshop on Electronics for Particle Physics, Oxford(Great-Britain), Inst. of Physics.
<http://dx.doi.org/10.1088/1748-0221/8/01/C01054>

R. Mitzner et al.
L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser.
The journal of physical chemistry letters, 4(21):3641 – 3647, and DESY-2014-02037.
<http://dx.doi.org/10.1021/jz401837f>

G. Moortgat-Pick, P. Osland, A. A. Pankov, and A. V. Tsytrinov.
Unique heavy lepton signature at e^+e^- linear collider with polarized beams.
Physical review / D, 87(9):095017, and DESY-2014-00924.
<http://dx.doi.org/10.1103/PhysRevD.87.095017>

A. Vauth, M. Beckmann, J. List, and B. Vormwald.
Precision Polarimetry for the International Linear Collider.
Proceedings of Science, Trieste, 2013. European Physical Society Conference on High Energy Physics, Stockholm(Sweden), SISSA.

B. Vormwald.
Bilinear R-Parity Violation: Neutrino physics at the ILC.
Proceedings of Science, volume EPS-HEP2013, Trieste, 07/18/2013 - 07/24/2013 2013. European Physical Society Conference on High Energy Physics, Stockholm(Sweden), SISSA.

Dissertationen

M. Beckmann.
Spin Transport at the International Linear Collider and its Impact on the Measurement of Polarization.
 University of Hamburg, 2013.

BELLE

Veröffentlichungen

C. Adloff et al.
Validation of GEANT4 Monte Carlo models with a highly granular scintillator-steel hadron calorimeter.
Journal of Instrumentation, 8(P07005):28, and DESY-2014-01910.
<http://dx.doi.org/10.1088/1748-0221/8/07/P07005>

V. Bhardwaj et al.
Evidence of a New Narrow Resonance Decaying to $\chi_{c1}\gamma$ in $B \rightarrow \chi_{c1}\gamma K$.
Physical review letters, 111(3):032001, and DESY-2013-00448, Belle Preprint 2013-7.
<http://dx.doi.org/10.1103/PhysRevLett.111.032001>

K. Chilikin et al.
Experimental constraints on the spin and parity of the $Z(4430)^+$.
Physical review / D, 88(7):074026, and DESY-2013-01013, Belle preprint 2013-12.
<http://dx.doi.org/10.1103/PhysRevD.88.074026>

R. Chistov et al.
First observation of Cabibbo-suppressed Ξ_c^0 decays.
Physical review / D, 88(7):071103, and DESY-2013-01014, Belle preprint 2013-13.
<http://dx.doi.org/10.1103/PhysRevD.88.071103>

B. Collaboration et al.
Measurement of the CP Violation Parameters in $B^0 - \pi^+\pi^-$ Decays.
Physical review / D, 88(9):092003, and DESY-2013-01387, Belle Preprint 2013-11.
<http://dx.doi.org/10.1103/PhysRevD.88.092003>

B. Collaboration et al.
Evidence for the suppressed decay $B^- \rightarrow DK^-, D \rightarrow K^+\pi^-\pi^0$.
Physical review / D, 88(9):091104, and DESY-2013-01488, Belle Preprint 2013-24.
<http://dx.doi.org/10.1103/PhysRevD.88.091104>

B. Collaboration et al.
Evidence for $\bar{B}_s^0 \rightarrow \Lambda_c^+\bar{\Lambda}\pi^-$.
Physics letters / B, 726(1-3):206 – 210, and DESY-2013-01012, Belle preprint 2013-4.
<http://dx.doi.org/10.1016/j.physletb.2013.08.057>

B. Collaboration et al.

Measurement of the Decays $B_s^0 \rightarrow J/\psi \phi(1020)$, $B_s^0 \rightarrow J/\psi f_2'(1525)$ and $B_s^0 \rightarrow J/\psi K^+ K^-$ at Belle.
Physical review / D, 88:114006, and DESY-2013-01479, Belle Preprint 2013-21; arXiv:1309.0704.
<http://dx.doi.org/10.1103/PhysRevD.88.114006>

T. B. Collaboration et al.

High-statistics study of K_S^0 pair production in two-photon collisions.
Progress of theoretical and experimental physics, 123C01:123C01, and DESY-2013-01456, Belle Preprint 2013-18. <http://dx.doi.org/10.1093/ptep/ptt097>

M. Friedl et al.

The Belle II Silicon Vertex Detector.
Nuclear instruments & methods in physics research / A, 732:83 – 86, and DESY-2014-01897.
<http://dx.doi.org/10.1016/j.nima.2013.05.171>

V. Gaur et al.

Evidence for the decay $B^0 \rightarrow K^+ K^- \pi^0$.
Physical review / D, 87(9):091101, and DESY-2013-00160, Belle-Preprint-2013-5.
<http://dx.doi.org/10.1103/PhysRevD.87.091101>

P. Krokovny et al.

First observation of the $Z_b^0(10610)$ in a Dalitz analysis of $Y(10860) \rightarrow (nS)\pi^0\pi^0$.
Physical review / D, 88(5):052016, and DESY-2013-00857, Belle preprint 2013-20.
<http://dx.doi.org/10.1103/PhysRevD.88.052016>

Z. Q. Liu et al.

Study of $e^+e^- \rightarrow \pi^+\pi^- J/\psi$ and Observation of a Charged Charmoniumlike State at Belle.
Physical review letters, 110(25):252002, and DESY-2013-00151.
<http://dx.doi.org/10.1103/PhysRevLett.110.252002>

M. Prim et al.

Angular analysis of $B^0 \rightarrow \phi K^*$ decays and search for CP violation at Belle.
Physical review / D, 88(7):072004, and DESY-2013-01016, Belle preprint 2013-16.
<http://dx.doi.org/10.1103/PhysRevD.88.072004>

S. Sandilya et al.

Search for bottomonium states in exclusive radiative $Y(2S)$ decays.
Physical review letters, 111(11):112001, and DESY-2013-00779, Belle preprint 2013-14.
<http://dx.doi.org/10.1103/PhysRevLett.111.112001>

C. P. Shen et al.

Measurement of exclusive $Y(1S)$ and $Y(2S)$ decays into vector-pseudoscalar final states.
Physical review / D, 88(1):011102, and DESY-2013-00449, Belle Preprint 2013-8.
<http://dx.doi.org/10.1103/PhysRevD.88.011102>

C. P. Shen et al.

Measurement of $e^+e^- \rightarrow \omega\pi^0$, $K^*(892)\bar{K}$ and $K_2^*(1430)\bar{K}$ at 10.52 GeV, 10.58 GeV, and 10.876 GeV.
Physical review / D, 88(5):052019, and DESY-2013-00882, Belle preprint 2013-19.
<http://dx.doi.org/10.1103/PhysRevD.88.052019>

A. Sibidanov et al.

Study of exclusive $B \rightarrow X_u \ell \nu$ decays and extraction of $|V_{ub}|$ using full reconstruction tagging at the Belle experiment.
Physical review / D, 88(3):032005, and DESY-2013-00592, Belle Preprint 2013-9.
<http://dx.doi.org/10.1103/PhysRevD.88.032005>

The ATLAS Collaboration.

Search for a heavy narrow resonance decaying to $e\mu$, $e\tau$, or $\mu\tau$ with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC.
Physics letters / B, 723(1-3):15 – 32, and DESY-2013-00373, CERN-PH-EP-2012-326.
<http://dx.doi.org/10.1016/j.physletb.2013.04.035>

E. White et al.

Measurement of the wrong-sign decay $D^0 \rightarrow K^+\pi^-\pi^+\pi^-$.
Physical review / D, 88(5):051101, and DESY-2013-01015, Belle preprint 2013-17.
<http://dx.doi.org/10.1103/PhysRevD.88.051101>

A. Zupanc et al.

Measurements of branching fractions of leptonic and hadronic D_s^+ meson decays and extraction of the D_s^+ meson decay constant.
Journal of high energy physics, 2013(9):139, and DESY-2013-00881, Belle preprint 2013-15.
[http://dx.doi.org/10.1007/JHEP09\(2013\)139](http://dx.doi.org/10.1007/JHEP09(2013)139)

Dissertationen

D. Britzger.

Regularized Unfolding of Jet Cross Sections in Deep-Inelastic ep Scattering at HERA and Determination of the Strong Coupling Constant.
 Universität Hamburg, Hamburg, 2013.

Masterarbeiten

K.-S. Petersen.

Event Selection and Trigger Studies for an Analysis of the Forward-Backward Asymmetry of Muon Pairs at the Belle Experiment.
 University of Hamburg, 2013.

ALPS

Veröffentlichungen

K. Baker et al.

The quest for axions and other new light particles.
Annalen der Physik, 525(6):A93–A99, and DESY-2013-00123, DESY 13-089. <http://dx.doi.org/10.1002/andp.201300727>

R. Bähre et al.

Any light particle search II — Technical Design Report.
Journal of Instrumentation, 8(09):T09001, and DESY-2013-01033, DESY 13-030.
<http://dx.doi.org/10.1088/1748-0221/8/09/T09001>

D. Horns et al.
Searching for WISPy cold dark matter with a dish antenna.
The journal of corrosion science and engineering, 2013:16, and
 PHPPUBDB-26143, DESY 12-227.
<http://dx.doi.org/10.1088/1475-7516/2013/04/016>

Theory

Veröffentlichungen

W. Beenakker et al.
NNLL resummation for squark-antisquark production.
Proceedings of Science, page 8, and PHPPUBDB-26115,
 DESY-11-254; arXiv:1112.5057.

A. Ali, C. Hambrock, A. Y. Parkhomenko, and W. Wang.
Light-Cone distribution amplitudes of the ground state bottom baryons in HQET.
The European physical journal / C, 73:4, and
 PHPPUBDB-26310, DESY 12-225; arXiv:1212.3280.
<http://dx.doi.org/10.1140/epjc/s10052-013-2302-4>

A. Ali, C. Hambrock, and W. Wang.
Hadroproduction of $\Upsilon(nS)$ above the $B\bar{B}[\text{over } \Upsilon]$ thresholds and implications for $Y_b(10890)$.
Physical review / D, 88(5):054026, and DESY-2013-01076,
 DESY 13-107.
<http://dx.doi.org/10.1103/PhysRevD.88.054026>

S. Alioli et al.
Combining higher-order resummation with multiple NLO calculations and parton showers in GENEVA.
Journal of high energy physics, 2013(9):120, and
 DESY-2013-01005, DESY 12-221.
[http://dx.doi.org/10.1007/JHEP09\(2013\)120](http://dx.doi.org/10.1007/JHEP09(2013)120)

P. Anastasopoulos, M. Cvetič, R. Richter, and P. K. S. Vaudrevange.
String constraints on discrete symmetries in MSSM type II quivers.
Journal of high energy physics, 2013:011, and
 PHPPUBDB-26091, DESY 12-182.
[http://dx.doi.org/10.1007/JHEP03\(2013\)011](http://dx.doi.org/10.1007/JHEP03(2013)011)

S. Andreas, M. Goodsell, and A. Ringwald.
Dark matter and dark forces from a supersymmetric hidden sector.
Physical review / D, 87:24, and PHPPUBDB-24329, DESY
 11-159. <http://dx.doi.org/10.1103/PhysRevD.87.025007>

S. Andreas, M. D. Goodsell, and A. Ringwald.
Hidden photons in connection to dark matter.
 In *AIP Conf. Proc.* 1563, 114 (2013) – , 2013. –
[doi:10.1063/1.4829388](https://doi.org/10.1063/1.4829388), *AIP conference proceedings*, volume
 1563, pages 114 – 117, Melville, NY, 2013. Workshop to
 Explore Physics Opportunities with Intense, Polarized Electron
 Beams at 50-300 MeV, Cambridge(Massachusetts), Inst.
<http://dx.doi.org/10.1063/1.4829388>

M. Asano, K. Rolbiecki, and K. Sakurai.
Can R-parity violation hide vanilla supersymmetry at the LHC?
Journal of high energy physics, 1301:14, and
 PHPPUBDB-25569, DESY 12-158.

M. Badziak, S. Krippendorff, H. P. Nilles, and M. W. Winkler.
The heterotic MiniLandscape and the 126 GeV Higgs boson.
Journal of high energy physics, 2013:22, and
 PHPPUBDB-26080, DESY 12-230; arXiv:1212.0854.
[http://dx.doi.org/10.1007/JHEP03\(2013\)094](http://dx.doi.org/10.1007/JHEP03(2013)094)

K. Baker et al.
The quest for axions and other new light particles.
Annalen der Physik, 525(6):A93–A99, and DESY-2013-00123,
 DESY 13-089. <http://dx.doi.org/10.1002/andp.201300727>

G. S. Bali et al.
Nucleon mass and sigma term from lattice QCD with two light fermion flavors.
Nuclear physics / B, 866:1–25, and PHPPUBDB-22730,
 DESY 12-105.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.08.009>

R. D. Ball, S. Forte, S. Marzani, G. Ridolfi, and M. Bonvini.
Higgs production in gluon fusion beyond NNLO.
Nuclear physics / B, 874(3):746 – 772, and
 DESY-2013-00647, DESY 13-001.
<http://dx.doi.org/10.1016/j.nuclphysb.2013.06.012>

P. Bechtle et al.
MSSM interpretations of the LHC discovery: light or heavy Higgs?
The European physical journal / C, 73(4):2354, and
 DESY-2013-00478.
<http://dx.doi.org/10.1140/epjc/s10052-013-2354-5>

W. Beenakker et al.
Towards NNLL resummation: hard matching coefficients for squark and gluino hadroproduction.
Journal of high energy physics, 2013(10):120, and
 DESY-2013-01062, DESY 13-072.
[http://dx.doi.org/10.1007/JHEP10\(2013\)120](http://dx.doi.org/10.1007/JHEP10(2013)120)

A. Bharucha, A. Fowler, G. Moortgat-Pick, and G. Weiglein.
Consistent on shell renormalisation of electroweakinos in the complex MSSM: LHC and LC predictions.
Journal of high energy physics, 2013:53, and
 DESY-2013-01090, DESY-12-015.
[http://dx.doi.org/10.1007/JHEP05\(2013\)053](http://dx.doi.org/10.1007/JHEP05(2013)053)

A. Bharucha, J. Kalinowski, G. Moortgat-Pick, K. Rolbiecki, and G. Weiglein.
One-loop effects on MSSM parameter determination via chargino production at the LC.
The European physical journal / C, 73(6):2446, and
 DESY-2013-01030, DESY 12-207.
<http://dx.doi.org/10.1140/epjc/s10052-013-2446-2>

D. Blas, M. Garny, and T. Konstandin.
On the non-linear scale of cosmological perturbation theory.
Journal of cosmology and astroparticle physics, 2013(09):024,
 and DESY-2013-01039, DESY 13-060.
<http://dx.doi.org/10.1088/1475-7516/2013/09/024>

S. Bobrovskiy, J. Hajer, and S. Rydbeck.
Long-lived higgsinos as probes of gravitino dark matter at the LHC.
Journal of high energy physics, 2013:34, and
 PHPPUBDB-26034, DESY 12-175.
[http://dx.doi.org/10.1007/JHEP02\(2013\)133](http://dx.doi.org/10.1007/JHEP02(2013)133)

M. Bonvini.

An approximate N^3 LO cross section for Higgs production in gluon fusion.

The European physical journal / Web of Conferences, 60:12008, and DESY-2013-01480, DESY 13-116.
<http://dx.doi.org/10.1051/epjconf/20136012008>

M. Bonvini, F. Caola, S. Forte, K. Melnikov, and G. Ridolfi.
Signal-background interference effects for $gg \rightarrow H \rightarrow W^+W^-$ beyond leading order.

Physical review / D, 88(3):034032, and DESY-2013-01038, DESY 13-059.
<http://dx.doi.org/10.1103/PhysRevD.88.034032>

M. Bonvini, S. Forte, M. Ghezzi, and G. Ridolfi.

The scale of soft resummation in SCET vs perturbative QCD.
Nuclear physics / B / Proceedings supplements, 241-242:121 – 126, and DESY-2013-00995.

<http://dx.doi.org/10.1016/j.nuclphysbps.2013.06.020>

V. V. Braguta, P. V. Buividovich, T. Kalaydzhyanyan, and M. I. Polikarpov.

Topological and magnetic properties of the QCD vacuum probed by overlap fermions.

Proceedings of Science, 085:8, and PHPPUBDB-26030, DESY-13-032.

F. Brümmer, M. Ibe, and T. T. Yanagida.

Focus point gauge mediation in product group unification.

Physics letters / B, 726(1-3):364 – 369, and DESY-2013-01035, DESY 13-042.
<http://dx.doi.org/10.1016/j.physletb.2013.09.012>

W. Buchmuller, V. Domcke, and K. Kamada.

The Starobinsky model from superconformal D-term inflation.

Physics letters / B, 726(1-3):467 – 470, and DESY-2013-01075, DESY 13-102.
<http://dx.doi.org/10.1016/j.physletb.2013.08.042>

W. Buchmuller.

Leptogenesis: Theory and Neutrino Masses.

Nuclear physics / B / Proceedings supplements, volume 235, page 7, Amsterdam, 2013. 25th Int. Conf. on Neutrino Physics, Kyoto(Japan), Elsevier.

W. Buchmuller, V. Domcke, and K. Schmitz.

Superconformal D-term inflation.

The journal of corrosion science and engineering, 2013:019, and PHPPUBDB-26477.
<http://dx.doi.org/10.1088/1475-7516/2013/04/019>

W. Buchmuller, V. Domcke, K. Kamada, and K. Schmitz.

The gravitational wave spectrum from cosmological B - L breaking.

Journal of cosmology and astroparticle physics, 2013(10):003, and DESY-2013-01037, DESY 13-050.
<http://dx.doi.org/10.1088/1475-7516/2013/10/003>

R. Bähre et al.

Any light particle search II — Technical Design Report.

Journal of Instrumentation, 8(09):T09001, and DESY-2013-01033, DESY 13-030.
<http://dx.doi.org/10.1088/1748-0221/8/09/T09001>

F. Campanario, T. M. Figy, S. Plätzer, and M. Sjö Dahl.
Electroweak Higgs Boson Plus Three Jet Production at Next-to-Leading-Order QCD.

Physical review letters, 111(21):211802, and DESY-2013-01217, DESY 13-144.
<http://dx.doi.org/10.1103/PhysRevLett.111.211802>

C. Candu, V. Mitev, and V. Schomerus.

Anomalous dimensions in deformed WZW models on supergroups.

Journal of high energy physics, 2013:27, and PHPPUBDB-26033, DESY 12-186.
[http://dx.doi.org/10.1007/JHEP03\(2013\)003](http://dx.doi.org/10.1007/JHEP03(2013)003)

C. Candu, V. Mitev, and V. Schomerus.

Spectra of coset sigma models.

Nuclear physics / B, 877(3):900 – 935, and DESY-2013-01401, DESY 13-148.
<http://dx.doi.org/10.1016/j.nuclphysb.2013.10.026>

M. Carena, S. Heinemeyer, O. Stål, C. E. M. Wagner, and G. Weiglein.

MSSM Higgs boson searches at the LHC: benchmark scenarios after the discovery of a Higgs-like particle.

The European physical journal / C, 73(9):2552, and DESY-2013-01032, DESY 13-024.
<http://dx.doi.org/10.1140/epjc/s10052-013-2552-1>

M. C. Chen, M. Ratz, C. Staudt, and P. K. S. Vaudrevange.

The mu term and neutrino masses.

Nuclear physics / B, 866:157–176, and PHPPUBDB-22394, DESY 12-108.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.08.018>

M. Cicoli, S. d. Alwis, and A. Westphal.

Heterotic moduli stabilisation.

Journal of high energy physics, 2013:199, and DESY-2013-01395, DESY-13-066.
[http://dx.doi.org/10.1007/JHEP10\(2013\)199](http://dx.doi.org/10.1007/JHEP10(2013)199)

M. Diehl and T. Kasemets.

Positivity bounds on double parton distributions.

Journal of high energy physics, 2013(5):150, and DESY-2013-00169, DESY-13-037.
[http://dx.doi.org/10.1007/JHEP05\(2013\)150](http://dx.doi.org/10.1007/JHEP05(2013)150)

M. Diehl and P. Kroll.

Nucleon form factors, generalized parton distributions and quark angular momentum.

The European physical journal / C, 73(4):2397, and DESY-2013-00168, DESY-13-025.
<http://dx.doi.org/10.1140/epjc/s10052-013-2397-7>

F. Domingo, O. Lebedev, Y. Mambrini, J. Quevillon, and A. Ringwald.

More on the hypercharge portal into the dark sector.

Journal of high energy physics, 2013(9):20, and DESY-2013-01069, DESY 13-090.
[http://dx.doi.org/10.1007/JHEP09\(2013\)020](http://dx.doi.org/10.1007/JHEP09(2013)020)

M. Eto et al.

Cosmic R-string, R-tube and Vacuum Instability.

Journal of high energy physics, 3:28, and PHPPUBDB-26268, DESY 12-219.

P. Falgari, A. Papanastasiou, and A. Signer.

Finite-width effects in unstable-particle production at hadron colliders.

Journal of high energy physics, 2013:156, and DESY-2013-00765, DESY 13-049.
[http://dx.doi.org/10.1007/JHEP05\(2013\)156](http://dx.doi.org/10.1007/JHEP05(2013)156)

- L. Ferro, T. Łukowski, C. Meneghelli, J. Plefka, and M. Staudacher.
Harmonic R Matrices for Scattering Amplitudes and Spectral Regularization.
Physical review letters, 110(12):121602, and DESY-2013-00480.
<http://dx.doi.org/10.1103/PhysRevLett.110.121602>
- M. Fischer, M. Ratz, J. Torrado, and P. K. S. Vaudrevange.
Classification of symmetric toroidal orbifolds.
Journal of high energy physics, 1301:51, and PHPPUBDB-24886, DESY 12-147.
- M. Fischer, S. Ramos-Sánchez, and P. Vaudrevange.
Heterotic non-abelian orbifolds.
Journal of high energy physics, 2013(7):80, and DESY-2014-00191, DESY 13-075.
[http://dx.doi.org/10.1007/JHEP07\(2013\)080](http://dx.doi.org/10.1007/JHEP07(2013)080)
- M. Frank et al.
Charged Higgs boson mass of the MSSM in the Feynman diagrammatic approach.
Physical review / D, 88(5):055013, and DESY-2013-01074, DESY 13-100.
<http://dx.doi.org/10.1103/PhysRevD.88.055013>
- R. Frassek and C. Meneghelli.
From Baxter Q-operators to local charges.
Journal of South American earth sciences, 2013:P02019, and PHPPUBDB-25911, DESY 12-127.
<http://dx.doi.org/10.1088/1742-5468/2013/02/P02019>
- T. Frossard, M. Garny, A. Hohenegger, A. Kartavtsev, and D. Mitrouskas.
Systematic approach to thermal leptogenesis.
Physical review / D, 87:39, and PHPPUBDB-26311, DESY 12-202. <http://dx.doi.org/10.1103/PhysRevD.87.085009>
- I. Gahramanov and G. Vartanov.
Extended global symmetries for 4D $\mathcal{N} = 1$ SQCD theories.
Journal of physics / A, 46(28):10, and DESY-2013-00649, DESY 13-041.
<http://dx.doi.org/10.1088/1751-8113/46/28/285403>
- S. Gangal and F. Tackmann.
Next-to-leading-order uncertainties in Higgs+2 jets from gluon fusion.
Physical review / D, 87(9):093008, and DESY-2013-00120, DESY 13-029.
<http://dx.doi.org/10.1103/PhysRevD.87.093008>
- M. Garny, A. Ibarra, M. Pato, and S. Vogl.
On the spin-dependent sensitivity of XENON100.
Physical review / D, 87:7, and PHPPUBDB-26094, DESY 12-174.
- M. Garny, A. Kartavtsev, and A. Hohenegger.
Leptogenesis from first principles in the resonant regime.
Annals of physics, 328:26–63, and PHPPUBDB-24459, DESY-11-264; arXiv:1112.6428.
<http://dx.doi.org/10.1016/j.aop.2012.10.007>
- M. Garny, A. Ibarra, M. Pato, and S. Vogl.
Internal bremsstrahlung signatures in light of direct dark matter searches.
Journal of cosmology and astroparticle physics, 2013(12):046 – 046, and DESY-2014-00192, DESY 13-115.
<http://dx.doi.org/10.1088/1475-7516/2013/12/046>
- M. Gasperini, G. Marozzi, F. Nugier, G. Veneziano, and I. Ben-Dayan.
Average and dispersion of the luminosity-redshift relation in the concordance model.
Journal of cosmology and astroparticle physics, 2013(06):002 – 002, and DESY-2013-00648, DESY 13-011.
<http://dx.doi.org/10.1088/1475-7516/2013/06/002>
- J. Gaunt.
Single perturbative splitting diagrams in double parton scattering.
Journal of high energy physics, 01:042, and PHPPUBDB-23656.
- B. Gripaios, K. Nagao, M. Nojiri, K. Sakurai, and B. Webber.
Reconstruction of Higgs bosons in the di-tau channel via 3-prong decay.
Journal of high energy physics, 2013:18, and PHPPUBDB-26093, DESY 12-245.
[http://dx.doi.org/10.1007/JHEP03\(2013\)106](http://dx.doi.org/10.1007/JHEP03(2013)106)
- R. Gwyn, M. Rummel, and A. Westphal.
Relations between canonical and non-canonical inflation.
Journal of cosmology and astroparticle physics, 2013(12):010, and DESY-2013-01485, DESY 12-245.
<http://dx.doi.org/10.1088/1475-7516/2013/12/010>
- R. Gwyn, M. Rummel, and A. Westphal.
Resonant non-Gaussianity with equilateral properties.
Journal of cosmology and astroparticle physics, 1304:040, and DESY-2013-00143, DESY-12-216.
<http://dx.doi.org/10.1088/1475-7516/2013/04/040>
- Y. Hamada, K. Kamada, T. Kobayashi, and Y. Ookouchi.
Cosmological constraints on spontaneous R-symmetry breaking models.
Journal of cosmology and astroparticle physics, 04:29, and DESY-2013-00479.
<http://dx.doi.org/doi:10.1088/1475-7516/2013/04/043>
- J. Harz, B. Herrmann, M. Klasen, K. Kovarik, and Q. L. Boulc'h.
Neutralino-stop co-annihilation into electroweak gauge and Higgs bosons at one loop.
Physical review / D, 87:20, and PHPPUBDB-26267, DESY-12-205; arXiv:1212.5241.
<http://dx.doi.org/10.1103/PhysRevD.87.054031>
- J. Hasenkamp and M. Winkler.
NMSSM with gravitino dark matter to be tested at LHC.
Nuclear physics / B, 877(2):419 – 440, and DESY-2013-01400, DESY 13-142.
<http://dx.doi.org/10.1016/j.nuclphysb.2013.10.017>
- Y. Hatsuda, K. Ito, and Y. Satoh.
Null-polygonal minimal surfaces in AdS4 from perturbed W minimal models.
Journal of high energy physics, 2013:43, and PHPPUBDB-25960, DESY-12-197.
[http://dx.doi.org/10.1007/JHEP02\(2013\)067](http://dx.doi.org/10.1007/JHEP02(2013)067)
- Y. Hatsuda, S. Moriyama, and K. Okuyama.
Instanton Effects in ABJM Theory from Fermi Gas Approach.
Journal of high energy physics, 1301:42, and PHPPUBDB-25635, DESY 12-196.

- Y. Hatsuda, M. Honda, S. Moriyama, and K. Okuyama.
ABJM Wilson Loops in Arbitrary Representations.
Journal of high energy physics, 1310:168, and DESY-2013-01100, DESY-13-097.
[http://dx.doi.org/10.1007/JHEP10\(2013\)168](http://dx.doi.org/10.1007/JHEP10(2013)168)
- Y. Hatsuda, S. Moriyama, and K. Okuyama.
Instanton Bound States in ABJM Theory.
Journal of high energy physics, 1305(5):54, and DESY-2013-00171, DESY 13-010.
[http://dx.doi.org/10.1007/JHEP05\(2013\)054](http://dx.doi.org/10.1007/JHEP05(2013)054)
- A. Hebecker, S. C. Kraus, and A. Westphal.
Evading the Lyth bound in hybrid natural inflation.
Physical review / D, 88(12):123506, and DESY-2013-01396, DESY 13-076.
<http://dx.doi.org/10.1103/PhysRevD.88.123506>
- S. Heinemeyer, W. Hollik, G. Weiglein, and L. Zeune.
Implications of LHC search results on the W boson mass prediction in the MSSM.
Journal of high energy physics, 2013(12):84, and DESY-2014-00185, DESY 13-015.
[http://dx.doi.org/10.1007/JHEP12\(2013\)084](http://dx.doi.org/10.1007/JHEP12(2013)084)
- D. Horns et al.
Searching for WISPy cold dark matter with a dish antenna.
The journal of corrosion science and engineering, 2013:16, and PHPPUBDB-26143, DESY 12-227.
<http://dx.doi.org/10.1088/1475-7516/2013/04/016>
- D.-i. Hwang, F. Pedro, and D.-h. Yeom.
Moduli destabilization via gravitational collapse.
Journal of high energy physics, JHEP 1309:159, and DESY-2013-01426, DESY 13-105.
[http://dx.doi.org/10.1007/JHEP09\(2013\)159](http://dx.doi.org/10.1007/JHEP09(2013)159)
- I. G. Irastorza et al.
Future axion searches with the International Axion Observatory (IAXO).
Journal of physics / Conference Series, volume 460, page 012002, Bristol, 12/17/2012 - 12/19/2012 2013. 6th Symposium on Large TPCs for Low Energy Rare Event Detection, Paris(France), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/460/1/012002>
- T. T. Jouttenus, I. W. Stewart, F. J. Tackmann, and W. J. Waalewijn.
Jet mass spectra in Higgs boson plus one jet at next-to-next-to-leading logarithmic order.
Physical review / D, 88(5):054031, and DESY-2013-01006, DESY 12-222.
<http://dx.doi.org/10.1103/PhysRevD.88.054031>
- T. Kalaydzhyan.
Chiral Superfluidity for the Heavy Ion Collisions.
Proceedings of Science, 302:3, and PHPPUBDB-26031, DESY-13-031.
- T. Kalaydzhyan.
Chiral superfluidity of the quark–gluon plasma.
Nuclear physics / A, 916:243–263, and DESY-2013-00255, DESY 12-126.
<http://dx.doi.org/10.1016/j.nuclphysa.2013.06.009>
- K. Kamada, T. Kobayashi, K. Ohashi, and Y. Ookouchi.
Cosmic R-string in thermal history.
Journal of high energy physics, 2013:28, and PHPPUBDB-26604, DESY 13-033.
[http://dx.doi.org/10.1007/JHEP05\(2013\)091](http://dx.doi.org/10.1007/JHEP05(2013)091)
- K. Kamada, T. Kobayashi, T. Kunimitsu, M. Yamaguchi, and J. Yokoyama.
Graceful exit from Higgs G inflation.
Physical review / D, 88(12):123518, and DESY-2013-01475, DESY 13-169.
<http://dx.doi.org/10.1103/PhysRevD.88.123518>
- A. Kaminska, G. G. Ross, and K. Schmidt-Hoberg.
Non-universal gaugino masses and fine tuning implications for SUSY searches in the MSSM and the GNMSSM.
Journal of high energy physics, 2013(11):209, and DESY-2013-01399, DESY 13-140.
[http://dx.doi.org/10.1007/JHEP11\(2013\)209](http://dx.doi.org/10.1007/JHEP11(2013)209)
- T. Kasemets and M. Diehl.
Angular correlations in the double Drell-Yan process.
Journal of high energy physics, 1301:23, and PHPPUBDB-25571, DESY 12-176.
- I. Kirsch and T. Kalaydzhyan.
Chiral magnetic effect and holography.
Proceedings of Science, Conf X:262, and PHPPUBDB-25855, DESY 13-016; arXiv:1301.6558.
- I. Kirsch and P. Kucharski.
Spin-k/2-spin-k/2 SU(2) two-point functions on the torus.
Nuclear physics / B, 869:315–328, and PHPPUBDB-25573, DESY 12-189.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.12.013>
- T. Konstandin.
Quantum transport and electroweak baryogenesis.
Physics / Uspekhi, 56(8):747, and DESY-2013-01034, DESY 13-036.
<http://dx.doi.org/10.3367/UFNe.0183.201308a.0785>
- S. Krippendorff, H. P. Nilles, M. Ratz, and M. Winkler.
Hidden SUSY from precision gauge unification.
Physical review / D, 88(3):035022, and DESY-2013-01071, DESY 13-099.
<http://dx.doi.org/10.1103/PhysRevD.88.035022>
- O. Lebedev and A. Westphal.
Metastable Electroweak Vacuum: Implications for Inflation.
Physics letters / B, 719:415–418, and PHPPUBDB-25958, DESY-12-179.
<http://dx.doi.org/10.1016/j.physletb.2012.12.069>
- L. Maccione, S. Liberati, and D. M. Mattingly.
Violations of Lorentz invariance in the neutrino sector after OPERA.
The journal of corrosion science and engineering, 2013:18, and PHPPUBDB-26142, DESY 11-172.
<http://dx.doi.org/10.1088/1475-7516/2013/03/039>
- R. Mahbubani, M. Papucci, G. Perez, J. T. Ruderman, and A. Weiler.
Light Nondegenerate Squarks at the LHC.
Physical review letters, 110(15):5, and DESY-2013-00136, DESY 12-231.
<http://dx.doi.org/10.1103/PhysRevLett.110.151804>
- D. Martínez-Pedrerá, D. Mehta, M. Rummel, and A. Westphal.
Finding all flux vacua in an explicit example.
Journal of high energy physics, 2013(6):110, and DESY-2013-00481, DESY 12-246.
[http://dx.doi.org/10.1007/JHEP06\(2013\)110](http://dx.doi.org/10.1007/JHEP06(2013)110)

M. McGarrie.

General resonance mediation.

Journal of high energy physics, 2013:32, and PHPPUBDB-26081, DESY 12-128.
[http://dx.doi.org/10.1007/JHEP03\(2013\)093](http://dx.doi.org/10.1007/JHEP03(2013)093)

M. McGarrie.

Holography for general gauge mediation.

Journal of high energy physics, 2013:40, and PHPPUBDB-26032, DESY 12-171.
[http://dx.doi.org/10.1007/JHEP02\(2013\)132](http://dx.doi.org/10.1007/JHEP02(2013)132)

M. McGarrie.

5D maximally supersymmetric Yang-Mills in 4D superspace: applications.

Journal of high energy physics, 2013:21, and PHPPUBDB-26608, DESY 13-048.
[http://dx.doi.org/10.1007/JHEP04\(2013\)161](http://dx.doi.org/10.1007/JHEP04(2013)161)

S. G. Nibbelink and P. K. S. Vaudrevange.

Schoen manifold with line bundles as resolved magnetized orbifolds.

Journal of high energy physics, 3:27, and PHPPUBDB-26269, DESY 12-242.

H. P. Nilles, S. Ramos-Sánchez, M. Ratz, and P. Vaudrevange.
A note on discrete R symmetries in Z6-II orbifolds with Wilson lines.

Physics letters / B, 726(4-5):876 – 881, and DESY-2014-01852, DESY 13-143.
<http://dx.doi.org/10.1016/j.physletb.2013.09.041>

H. P. Nilles, P. Vaudrevange, and M. Ratz.

Origin of family symmetries.

Fortschritte der Physik, 61:493–506, and DESY-2013-00548, DESY-12-047. <http://dx.doi.org/10.1002/prop.201200120>

A. S. Papanastasiou, R. Frederix, S. Frixione, V. Hirschi, and F. Maltoni.

Single-top t-channel production with off-shell and non-resonant effects.

Physics letters / B, 726(1-3):223 – 227, and DESY-2013-01064, DESY 13-088.
<http://dx.doi.org/10.1016/j.physletb.2013.07.062>

S. Plaetzer.

Controlling inclusive cross sections in parton shower + matrix element merging.

Journal of high energy physics, 2013(8):114, and DESY-2013-01004, DESY 12-215.
[http://dx.doi.org/10.1007/JHEP08\(2013\)114](http://dx.doi.org/10.1007/JHEP08(2013)114)

T. Quella and V. Schomerus.

Superspace conformal field theory.

Journal of physics / A, 46(49):494010, and DESY-2013-01397, DESY 13-082.
<http://dx.doi.org/10.1088/1751-8113/46/49/494010>

M. Redi, V. Sanz, M. Vries, and A. Weiler.

Strong signatures of right-handed compositeness.

Journal of high energy physics, 2013(8):8, and DESY-2013-00696, DESY 13-080.
[http://dx.doi.org/10.1007/JHEP08\(2013\)008](http://dx.doi.org/10.1007/JHEP08(2013)008)

J. Reuter and M. Tonini.

Can the 125 GeV Higgs be the Little Higgs?.

Journal of high energy physics, 2013:40, and PHPPUBDB-25959, DESY-12-177.
[http://dx.doi.org/10.1007/JHEP02\(2013\)077](http://dx.doi.org/10.1007/JHEP02(2013)077)

J. Reuter and D. Wiesler.

A Fat Gluino in Disguise.

The European physical journal / C, 73:27, and PHPPUBDB-26096, DESY 12-178.

K. Rolbiecki and K. Sakurai.

Light stops emerging in WW cross section measurements?.

Journal of high energy physics, 2013(9):4, and DESY-2013-01061, DESY 13-052.
[http://dx.doi.org/10.1007/JHEP09\(2013\)004](http://dx.doi.org/10.1007/JHEP09(2013)004)

K. Schmidt-hoberg, F. Staub, and M. Winkler.

Enhanced diphoton rates at Fermi and the LHC.

Journal of high energy physics, 1301:23, and PHPPUBDB-25572, DESY 12-203.

K. Schmidt-Hoberg, F. Staub, and M. Winkler.

Constraints on light mediators: confronting dark matter searches with B physics.

Physics letters / B, page S037026931300909X, and DESY-2013-01189, DESY 13-192; arXiv:1310.6752.
<http://dx.doi.org/10.1016/j.physletb.2013.11.015>

M. Stahlhofen.

Bottom mass from nonrelativistic sum rules at NNLL.

Proceedings of Science, Conf X:164, and PHPPUBDB-26117, DESY 13-008.

A. Westphal.

Tensor modes on the string theory landscape.

Journal of high energy physics, 2013:55, and PHPPUBDB-26408, DESY 12-106.
[http://dx.doi.org/10.1007/JHEP04\(2013\)054](http://dx.doi.org/10.1007/JHEP04(2013)054)

Dissertationen

S. Andreas.

Light Weakly Interacting Particles: Constraints and Connection to Dark Matter.

Universität Hamburg, 2013.

V. Domcke.

Matter, Dark Matter and Gravitational Waves from a GUT-scale U(1) Phase Transition.

University of Hamburg, 2013.

J. Hajer.

Long-lived neutralinos as probes of gravitino dark matter.

University of Hamburg, Hamburg, 2013.

J. Harz.

Supersymmetric QCD Corrections and Phenomenological Studies in Relation to Coannihilation of Dark Matter.

University of Hamburg, 2013.

T. Kalaydzhyan.

Quark-gluon plasma in strong magnetic fields.

University of Hamburg (DESY), 2013.

T. Kasemets.

Double parton scattering - a tale of two partons.

Hamburg University, 2013.

Diplomarbeiten

L. Sagunski.

Gravitational Waves as Cosmological Probes for New Physics between the Electroweak and the Grand-Unification Scale.

Univ. Hamburg, Hamburg, 2013.

Electronics Development

Veröffentlichungen

C. Adloff et al.

Validation of GEANT4 Monte Carlo models with a highly granular scintillator-steel hadron calorimeter.

Journal of Instrumentation, 8(P07005):28, and DESY-2014-01910.

<http://dx.doi.org/10.1088/1748-0221/8/07/P07005>

J. Becker et al.

High speed cameras for X-rays: AGIPD and others.

Journal of Instrumentation, volume 8, pages C01042 – C01042, London, 09/17/2012 - 09/21/2012 2013. Topical Workshop on Electronics for Particle Physics 2012, Oxford(United Kingdom), Inst. of Physics.

<http://dx.doi.org/10.1088/1748-0221/8/01/C01042>

P. Goettlicher.

Simulations and Measurements for a concept of powering CALICE-AHCAL at a train-cycled accelerator.

Journal of Instrumentation, volume 8, pages C01054 – C01054, London, 09/17/2012 - 09/21/2012 2013. Topical Workshop on Electronics for Particle Physics, Oxford(Great-Britain), Inst. of Physics.

<http://dx.doi.org/10.1088/1748-0221/8/01/C01054>

D. Greiffenberg et al.

Optimization of the noise performance of the AGIPD prototype chips.

Journal of Instrumentation, 8(10):P10022 – P10022, and DESY-2014-01951.

<http://dx.doi.org/10.1088/1748-0221/8/10/P10022>

K. Hansen, C. Reckleben, P. Kalavakuru, J. Szymanski, and I. Diehl.

8-bit 5-MS/s Analog-to-Digital Converter for Pixel-Level Integration.

IEEE transactions on nuclear science, 60(5):3843–3851, and DESY-2013-01233.

<http://dx.doi.org/10.1109/TNS.2013.2280660>

ILC

Veröffentlichungen

O. Kuprash.

Power pulsing of the CMOS sensor Mimosa 26.

Nuclear instruments & methods in physics research / A, volume A732, pages 519 – 522, Amsterdam, 02/11/2013 - 02/15/2013 2013. 13th Vienna Conference on Instrumentation, Vienna(Austria), North-Holland Publ. Co.

<http://dx.doi.org/10.1016/j.nima.2013.06.075>

Veröffentlichungen Astroteilchenphysik

Astroparticle physics

Veröffentlichungen

- M. Aartsen et al.
IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters.
Physical review / D, 88(12):122001, and DESY-2014-01320.
<http://dx.doi.org/10.1103/PhysRevD.88.122001>
- M. Aartsen et al.
Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory.
Physical review / D, 88(11):112008, and DESY-2014-01923.
<http://dx.doi.org/10.1103/PhysRevD.88.112008>
- M. G. Aartsen et al.
Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory.
Physical review / D, 87(6):062002, and DESY-2014-01282.
<http://dx.doi.org/10.1103/PhysRevD.87.062002>
- M. G. Aartsen et al.
OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY.
The astrophysical journal, 765(1):55, and DESY-2014-01281.
<http://dx.doi.org/10.1088/0004-637X/765/1/55>
- M. G. Aartsen et al.
Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector.
Physical review letters, 110(13):131302, and DESY-2014-01284.
<http://dx.doi.org/10.1103/PhysRevLett.110.131302>
- M. G. Aartsen et al.
Measurement of the Atmospheric ν_e Flux in IceCube.
Physical review letters, 110(15):151105, and DESY-2014-01290.
<http://dx.doi.org/10.1103/PhysRevLett.110.151105>
- M. G. Aartsen et al.
Measurement of South Pole ice transparency with the IceCube LED calibration system.
Nuclear instruments & methods in physics research / A, 711:73 – 89, and DESY-2014-01292.
<http://dx.doi.org/10.1016/j.nima.2013.01.054>
- M. G. Aartsen et al.
First Observation of PeV-Energy Neutrinos with IceCube.
Physical review letters, 111(2):021103, and DESY-2014-01302.
<http://dx.doi.org/10.1103/PhysRevLett.111.021103>
- M. G. Aartsen et al.
Measurement of Atmospheric Neutrino Oscillations with IceCube.
Physical review letters, 111(8):081801, and DESY-2014-01317.
<http://dx.doi.org/10.1103/PhysRevLett.111.081801>
- M. G. Aartsen et al.
Measurement of the cosmic ray energy spectrum with IceTop-73.
Physical review / D, 88(4):042004, and DESY-2014-01316.
<http://dx.doi.org/10.1103/PhysRevD.88.042004>
- M. G. Aartsen et al.
SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA.
The astrophysical journal, 779(2):132, and DESY-2014-01318.
<http://dx.doi.org/10.1088/0004-637X/779/2/132>
- R. Abbasi et al.
All-particle cosmic ray energy spectrum measured with 26 IceTop stations.
Astroparticle physics, 44:40 – 58, and DESY-2014-01278.
<http://dx.doi.org/10.1016/j.astropartphys.2013.01.016>
- R. Abbasi et al.
Cosmic ray composition and energy spectrum from 1–30PeV using the 40-string configuration of IceTop and IceCube.
Astroparticle physics, 42:15 – 32, and DESY-2014-01323.
<http://dx.doi.org/10.1016/j.astropartphys.2012.11.003>
- R. Abbasi et al.
Lateral distribution of muons in IceCube cosmic ray events.
Physical review / D, 87(1):012005, and DESY-2014-01248.
<http://dx.doi.org/10.1103/PhysRevD.87.012005>
- R. Abbasi et al.
Search for relativistic magnetic monopoles with IceCube.
Physical review / D, 87(2):022001, and DESY-2014-01254.
<http://dx.doi.org/10.1103/PhysRevD.87.022001>
- R. Abbasi et al.
An improved method for measuring muon energy using the truncated mean of dE/dx .
Nuclear instruments & methods in physics research / A, 703:190 – 198, and DESY-2014-01277.
<http://dx.doi.org/10.1016/j.nima.2012.11.081>
- R. Abbasi et al.
SEARCHES FOR HIGH-ENERGY NEUTRINO EMISSION IN THE GALAXY WITH THE COMBINED ICECUBE-AMANDA DETECTOR.
The astrophysical journal, 763(1):33, and DESY-2014-01326.
<http://dx.doi.org/10.1088/0004-637X/763/1/33>
- A. A. Abdo et al.
THE SECOND FERMI LARGE AREA TELESCOPE CATALOG OF GAMMA-RAY PULSARS.
The astrophysical journal / Supplement series, 208(2):1–59, and DESY-2014-00864.
<http://dx.doi.org/10.1088/0067-0049/208/2/17>
- J. Ablinger et al.
New Results on the 3-Loop Heavy Flavor Wilson Coefficients in Deep-Inelastic Scattering.
Proceedings of Science, Trieste, 07/04/2012 – 07/11/2012
2013. 36th International Conference on High Energy Physics, Melbourne(Australia), SISSA.
- J. Ablinger, J. Blümlein, and C. Schneider.
Analytic and algorithmic aspects of generalized harmonic sums and polylogarithms.
Journal of mathematical physics, 54:082301, and DESY-2014-00205. <http://dx.doi.org/10.1063/1.4811117>

- A. Abramowski et al.
Constraints on axionlike particles with H.E.S.S. from the irregularity of the PKS 2155-304 energy spectrum.
Physical review / D, 88(10):102003, and DESY-2014-01926.
<http://dx.doi.org/10.1103/PhysRevD.88.102003>
- A. Abramowski et al.
Discovery of very high energy γ -ray emission from the BLLacertae object PKS0301-243 with H.E.S.S..
Astronomy and astrophysics, 559(A136):1-11, and DESY-2014-00655.
<http://dx.doi.org/10.1051/0004-6361/201321639>
- A. Abramowski et al.
HESS and Fermi-LAT discovery of γ -rays from the blazar 1ES 1312-423.
Monthly notices of the Royal Astronomical Society, 434(3):1889 – 1901, and DESY-2014-00648.
<http://dx.doi.org/10.1093/mnras/stt1081>
- A. Abramowski et al.
Discovery of high and very high-energy emission from the BL Lacertae object SHBL J001355.9-185406.
Astronomy and astrophysics, 554(A72):1-8, and DESY-2014-00641, arXiv:1304.4023.
<http://dx.doi.org/10.1051/0004-6361/201220996>
- A. Abramowski et al.
H.E.S.S. discovery of VHE γ -rays from the quasar PKS1510-089.
Astronomy and astrophysics, 554(A107):1-7, and DESY-2014-00645, arXiv:1304.8071.
<http://dx.doi.org/10.1051/0004-6361/201321135>
- A. Abramowski et al.
H.E.S.S. observations of the binary system PSR B1259-63/LS 2883 around the 2010/2011 periastron passage.
Astronomy and astrophysics, 551:A94 –, and DESY-2014-01956.
<http://dx.doi.org/10.1051/0004-6361/201220612>
- A. Abramowski et al.
Probing the extent of the non-thermal emission from the Vela X region at TeV energies with H.E.S.S..
Astronomy and astrophysics, 548:11, and PHPPUBDB-24759, arXiv:1210.1359.
<http://dx.doi.org/10.1051/0004-6361/201219919>
- F. Acero et al.
CONSTRAINTS ON THE GALACTIC POPULATION OF TeV PULSAR WIND NEBULAE USING FERMI LARGE AREA TELESCOPE OBSERVATIONS.
The astrophysical journal, 773(77):1-27, and DESY-2014-00854.
<http://dx.doi.org/10.1088/0004-637X/773/1/77>
- B. S. Acharya et al.
Introducing the CTA concept.
Astroparticle physics, 43:3 – 18, and DESY-2014-00190.
<http://dx.doi.org/10.1016/j.astropartphys.2013.01.007>
- M. Ackermann et al.
THE FERMI ALL-SKY VARIABILITY ANALYSIS: A LIST OF FLARING GAMMA-RAY SOURCES AND THE SEARCH FOR TRANSIENTS IN OUR GALAXY.
The astrophysical journal, 771(57):1-12, and DESY-2014-00869.
<http://dx.doi.org/10.1088/0004-637X/771/1/57>
- M. Ackermann et al.
Search for gamma-ray spectral lines with the Fermi Large Area Telescope and dark matter implications.
Physical review / D, 88(8):082002, and DESY-2014-01050.
<http://dx.doi.org/10.1103/PhysRevD.88.082002>
- M. Ackermann et al.
DETERMINATION OF THE POINT-SPREAD FUNCTION FOR THE FERMI LARGE AREA TELESCOPE FROM ON-ORBIT DATA AND LIMITS ON PAIR HALOS OF ACTIVE GALACTIC NUCLEI.
The astrophysical journal, 765(1):54, and DESY-2014-01075.
<http://dx.doi.org/10.1088/0004-637X/765/1/54>
- M. Ackermann et al.
THE FIRST FERMI -LAT CATALOG OF SOURCES ABOVE 10 GeV.
The astrophysical journal / Supplement series, 209(34):1-34, and DESY-2014-00830.
<http://dx.doi.org/10.1088/0067-0049/209/2/34>
- M. Ackermann et al.
Detection of the Characteristic Pion-Decay Signature in Supernova Remnants.
Science, 339(6121):807 – 811, and DESY-2014-01153.
<http://dx.doi.org/10.1126/science.1231160>
- M. Ackermann et al.
ERRATUM: “FERMI LARGE AREA TELESCOPE STUDY OF COSMIC-RAYS AND THE INTERSTELLAR MEDIUM IN NEARBY MOLECULAR CLOUDS” (2012, ApJ, 755, 22).
The astrophysical journal, 778(1):82, and DESY-2014-01041.
<http://dx.doi.org/10.1088/0004-637X/778/1/82>
- M. Ackermann et al.
THE FIRST FERMI -LAT GAMMA-RAY BURST CATALOG.
The astrophysical journal / Supplement series, 209(1):1-90, and DESY-2014-00837.
<http://dx.doi.org/10.1088/0067-0049/209/1/11>
- M. Ackermann et al.
MULTIWAVELENGTH OBSERVATIONS OF GRB 110731A: GeV EMISSION FROM ONSET TO AFTERGLOW.
The astrophysical journal, 763(2):71, and DESY-2014-01078.
<http://dx.doi.org/10.1088/0004-637X/763/2/71>
- M. Ackermann et al.
ASSOCIATING LONG-TERM γ -RAY VARIABILITY WITH THE SUPERORBITAL PERIOD OF LS I +61°303.
The astrophysical journal / 2, 773(2):L35, and DESY-2014-01058.
<http://dx.doi.org/10.1088/2041-8205/773/2/L35>
- Ackermann, Markus and IceCube collaboration.
Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector.
Science, 342(6161):1242856, and DESY-2014-01241.
<http://dx.doi.org/10.1126/science.1242856>
- S. Alekhin, J. Blümlein, K. Daum, K. Lipka, and S. Moch.
Precise charm-quark mass from deep-inelastic scattering.
Physics letters / B, 720:172-176, and PHPPUBDB-26499, DESY 12-233; DO-TH-12-35; LPN-12-132; SFB-CPP-12-96; arXiv:1212.2355.
<http://dx.doi.org/10.1016/j.physletb.2013.02.010>

S. Alekhin, J. Blümlein, and S. Moch.

Heavy-quark production in deep-inelastic scattering.
Proceedings of Science, Trieste, 04/22/2013 - 04/26/2013
 2013. XXI International Workshop on Deep-Inelastic
 Scattering and Related Subjects, Marseille(France), SISSA.

S. ALEKHIN, J. BLÜMLEIN, and S.-O. MOCH.
**DETERMINATION OF α_s AND m_c IN DEEP-INELASTIC
 SCATTERING.**

Modern physics letters / A, volume 28, page 1360018,
 Singapur, 2013. International Workshop on Determination of
 the Fundamental Parameters of QCD: Part III,
 Singapore(Singapore), World Scientific Publ.
<http://dx.doi.org/10.1142/S0217732313600183>

J. Aleksić et al.

**Very high energy gamma-ray observation of the peculiar
 transient event Swift J1644+57 with the MAGIC telescopes
 and AGILE.**

Astronomy and astrophysics, 552(A112):1–6, and
 DESY-2014-00787.
<http://dx.doi.org/10.1051/0004-6361/201321197>

J. Aleksić et al.

**The Simultaneous Low State Spectral Energy Distribution of
 1ES 2344+514 from Radio to Very High Energies.**

Astronomy and astrophysics, 556(A67):1–28, and
 DESY-2014-00828, arXiv:1211.2608.
<http://dx.doi.org/10.1051/0004-6361/201220714>

C. Alexandrou et al.

**Nucleon form factors and moments of generalized parton
 distributions using $N_f = 2 + 1 + 1$ twisted mass fermions.**

Physical review / D, 88(1):1–22, and DESY-2014-00624,
 DESY-13-053, SFB-CPP-13-23, arXiv:1303.5979.
<http://dx.doi.org/10.1103/PhysRevD.88.014509>

C. Alexandrou et al.

Nucleon Structure using lattice QCD.

Il nuovo cimento / C, number 5, pages 111–120, [S.I.], 2013.
 3rd Workshop on the QCD Structure of the Nucleons,
 Bilbao(Spain), Italian Physical Society.
<http://dx.doi.org/10.1393/ncc/i2013-11560-0>

C. Alexandrou et al.

**Looking at the gluon moment of the nucleon with dynamical
 twisted mass fermions.**

Proceedings of Science, PoS(LATTICE2013), page 289,
 Trieste, 07/29/2013 - 08/03/2013 2013. 31st International
 Symposium on Lattice Field Theory, Mainz(Germany), SISSA.

S. Alioli et al.

**A new observable to measure the top-quark mass at hadron
 colliders.**

The European physical journal / C, 73(5):2438, and
 DESY-2014-01939.
<http://dx.doi.org/10.1140/epjc/s10052-013-2438-2>

E. Aliu et al.

**Discovery of TeV Gamma-Ray Emission Toward Supernova
 Remnant SNR G78.2+2.1.**

The astrophysical journal, 770(2):93 –, and
 DESY-2014-00172.
<http://dx.doi.org/10.1088/0004-637X/770/2/93>

E. Aliu et al.

**LONG TERM OBSERVATIONS OF B2 1215+30 WITH
 VERITAS.**

The astrophysical journal, 779(2):92, and DESY-2014-00165.
<http://dx.doi.org/10.1088/0004-637X/779/2/92>

E. Aliu et al.

**MULTIWAVELENGTH OBSERVATIONS AND
 MODELING OF 1ES 1959+650 IN A LOW FLUX STATE.**

The astrophysical journal, 775(1):3, and DESY-2014-00171.
<http://dx.doi.org/10.1088/0004-637X/775/1/3>

E. Aliu et al.

**DISCOVERY OF TeV GAMMA-RAY EMISSION FROM
 CTA 1 BY VERITAS.**

The astrophysical journal, 764(1):38, and DESY-2014-00180.
<http://dx.doi.org/10.1088/0004-637X/764/1/38>

E. Aliu et al.

**MULTIWAVELENGTH OBSERVATIONS OF THE TeV
 BINARY LS I +61° 303 WITH VERITAS, Fermi -LAT, AND
 Swift /XRT DURING A TeV OUTBURST.**

The astrophysical journal, 779(1):88, and DESY-2014-00166.
<http://dx.doi.org/10.1088/0004-637X/779/1/88>

A. Allafort et al.

**PSR J2021+4026 IN THE GAMMA CYGNI REGION: THE
 FIRST VARIABLE γ -RAY PULSAR SEEN BY THE Fermi
 LAT.**

The astrophysical journal / 2, 777(1):L2, and
 DESY-2014-01043.
<http://dx.doi.org/10.1088/2041-8205/777/1/L2>

A. Almasy, I. Dubovyk, J. Gluza, and T. Riemann.

**Reductions and Contractions of 1-loop Tensor Feynman
 Integrals.**

Acta physica Polonica / B, volume 44, pages 2241–2247,
 Cracow, 09/01/2013 - 09/06/2013 2013. 37th International
 Conference of Theoretical Physics : Matter to the Deepest:
 Recent Developments in Physics of Fundamental Interactions,
 Ustron(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolB.44.2241>

S. Archambault et al.

**DISCOVERY OF A NEW TeV GAMMA-RAY SOURCE:
 VER J0521+211.**

The astrophysical journal, 776(2):69, and DESY-2014-00168.
<http://dx.doi.org/10.1088/0004-637X/776/2/69>

S. Archambault et al.

Veritas Observations of the Microquasar Cygnus X-3.

The astrophysical journal, 779(2):10, and DESY-2014-00159.
<http://dx.doi.org/10.1088/0004-637X/779/2/150>

T. Arlen et al.

RAPID TeV GAMMA-RAY FLARING OF BL LACERTAE.

The astrophysical journal, 762(2):92, and DESY-2014-00181,
 arXiv:1211.3073.
<http://dx.doi.org/10.1088/0004-637X/762/2/92>

S. G. Babajanyan, E. D. Gazazyan, D. Kalantaryan, V. T.
 Nikoghosyan, and A. D. Ter-Poghosyan.

**Possibility of Yerevan synchrotron magnet structure
 transformation.**

Journal of contemporary physics, 48(6):253 – 258, and
 DESY-2014-00244.
<http://dx.doi.org/10.3103/S1068337213060017>

- H. Babayan et al.
Search for high-energy gamma-ray emission and upgrade of the GAMMA experiment on Mt. Aragats.
The European physical journal / Web of Conferences, volume 52, page 10003, Les Ulis, 08/10/2012 - 08/15/2012 2013. XVII International Symposium on Very High Energy Cosmic Ray Interactions, Berlin(Germany), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20125210003>
- P. A. Baikov, A. Maier, and P. Marquard.
Progress in Analytical Calculations for the Anomalous Magnetic Moment of the Muon.
Acta physica Polonica / B, volume 44, page 2267, Cracow, 09/01/2013 - 09/06/2013 2013. Matter To The Deepest, Warsaw(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolB.44.2267>
- P. A. Baikov, A. Maier, and P. Marquard.
The QED vacuum polarization function at four loops and the anomalous magnetic moment at five loops.
Nuclear physics / B, 877(3):647 – 661, and DESY-2013-01416, arXiv:1307.6105; DESY-13-130.
<http://dx.doi.org/10.1016/j.nuclphysb.2013.10.020>
- A. Barnacka and B. Behera.
The origin and emission mechanism of VHE (100 GeV) emission from FSRQs.
The European physical journal / Web of Conferences, volume 61, page 05007, Les Ulis, 06/10/2013 - 06/14/2013 2013. The Innermost Regions of Relativistic Jets and Their Magnetic Fields, Granada(Spain), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20136105007>
- A. Baushev.
EXTRAGALACTIC DARK MATTER AND DIRECT DETECTION EXPERIMENTS.
The astrophysical journal, 771(2):117, and DESY-2014-00162.
<http://dx.doi.org/10.1088/0004-637X/771/2/117>
- M. C. Bañuls, K. Cichy, J. I. Cirac, and K. Jansen.
The mass spectrum of the Schwinger model with matrix product states.
Journal of high energy physics, 2013(11):158, and DESY-2013-01411, arXiv:1305.3765; DESY-13-084; SFB-CPP-13-31.
[http://dx.doi.org/10.1007/JHEP11\(2013\)158](http://dx.doi.org/10.1007/JHEP11(2013)158)
- M. Benayoun, P. David, L. DelBuono, and F. Jegerlehner.
An update of the HLS estimate of the muon $g-2$.
The European physical journal / C, 73(6):2453, and DESY-2014-01837, LPNHE-2012-01; HU-EP-12-40; DESY-12-190.
<http://dx.doi.org/10.1140/epjc/s10052-013-2453-3>
- S. F. Bereznev et al.
The Tunka – Multi-component EAS detector for high energy cosmic ray studies.
Nuclear instruments & methods in physics research / A, 732:281 – 285, and DESY-2014-00900.
<http://dx.doi.org/10.1016/j.nima.2013.05.180>
- P. Berghaus.
Atmospheric muons as IceCube signal.
The European physical journal / Web of Conferences, volume 52, page 09006, Les Ulis, 08/10/2012 - 08/15/2012 2013. 17th international Symposium on very high energy cosmic ray interactions, Berlin(Germany), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20135209006>
- Bernlöhr, K. and Barnacka, A. and Becherini, Y. and Blanch Bigas, O. and Carmona, E. and Colin, P. and Decerprit, G. and Di Pierro, F. and Dubois, F. and Farnier, C. and Funk, S. and Hermann, G. and Hinton, J. A. and Humensky, T. B. and Khelifi, B. and Kihm, T. and Komin, N. and Lenain, J.-P. and Maier, G. and Mazin, D. and Medina, M. C. and Moralejo, A. and Nolan, S. J. and Ohm, S. and de Ona Wilhelmi, E. and Parsons, R. D. and Paz Arribas, M. and Pedalletti, G. and Pita, S. and Prokoph, H. and Rulten, C. B. and Schwanke, U. and Shayduk, M. and Stamatescu, V. and Vallania, P. and Vorobiov, S. and Wischniewski, R. and Yoshikoshi, T. and Zech, A. and CTA Collaboration.
Monte Carlo design studies for the Cherenkov Telescope Array.
Astroparticle physics, 43:171, and PHPPUBDB-24390, arXiv:1210.3503.
<http://dx.doi.org/10.1016/j.astropartphys.2012.10.002>
- K. Bielas, I. Dubovyk, J. Gluza, and T. Riemann.
Some Remarks on Non-planar Feynman Diagrams.
Acta physica Polonica / B, volume 44, page 2249, Cracow, 09/01/2013 - 09/06/2013 2013. 37th International Conference of Theoretical Physics : Matter to the Deepest: Recent Developments in Physics of Fundamental Interactions, Ustron(Poland), Inst. of Physics, Jagellonian Univ.
<http://dx.doi.org/10.5506/APhysPolB.44.2249>
- L. Biferale et al.
An optimized D2Q37 Lattice Boltzmann code on GP-GPUs.
Computers & fluids, 80:55 – 62, and DESY-2014-01952.
<http://dx.doi.org/10.1016/j.compfluid.2012.06.003>
- J. Blümlein.
The Theory of Deeply Inelastic Scattering.
Progress in particle and nuclear physics, 69:28–84, and PHPPUBDB-25097, DESY 12-096.
<http://dx.doi.org/10.1016/j.pnpnp.2012.09.006>
- J. Blümlein, A. Hasselhuhn, S. Klein, and C. Schneider.
The $O(\alpha_s^3 n_f T_F^2 C_{A,F})$ contributions to the gluonic massive operator matrix elements.
Nuclear physics / B, 866:196–211, and PHPPUBDB-23253, DESY 12-055; DO-TH-12/13; SFB/CPP-12-28; LPN 12-052.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.09.001>
- N. Budnev et al.
Tunka-25 Air Shower Cherenkov array: The main results.
Astroparticle physics, 50-52:18 – 25, and DESY-2014-00897.
<http://dx.doi.org/10.1016/j.astropartphys.2013.09.006>
- J. Bulava, K. Jansen, and A. Nagy.
Constraining a fourth generation of quarks: Non-perturbative Higgs boson mass bounds.
Physics letters / B, 723(1-3):95 – 99, and DESY-2014-00588, arXiv:1301.3416.
<http://dx.doi.org/10.1016/j.physletb.2013.04.041>
- A. Cianchi et al.
Challenges in plasma and laser wakefield accelerated beams diagnostic.
Nuclear instruments & methods in physics research / A, 720:153 – 156, and DESY-2014-00241.
<http://dx.doi.org/10.1016/j.nima.2012.12.012>

K. Cichy, E. Garcia-Ramos, and K. Jansen.

Chiral condensate from the twisted mass Dirac operator spectrum.

Journal of high energy physics, 175(10):1–24, and DESY-2014-00621, DESY-13-038, HU-EP-13-08, SFB-CPP-13-17, arXiv:1303.1954.
[http://dx.doi.org/10.1007/JHEP10\(2013\)175](http://dx.doi.org/10.1007/JHEP10(2013)175)

K. Cichy, A. Kujawa-Cichy, and M. Szyniszewski.

Lattice Hamiltonian approach to the massless Schwinger model: Precise extraction of the mass gap.

Computer physics communications, 184(7):1666 – 1672, and DESY-2014-01832.
<http://dx.doi.org/10.1016/j.cpc.2013.02.010>

H. E. S. S. Collaboration et al.

Discovery of TeV γ -ray emission from PKS0447-439 and derivation of an upper limit on its redshift.

Astronomy and astrophysics, 552(118):1–14, and DESY-2014-00637, arXiv:1303.1628.
<http://dx.doi.org/10.1051/0004-6361/201321108>

T. M. Collaboration et al.

Observations of the magnetars 4U 0142+61 and 1E 2259+586 with the MAGIC telescopes.

Astronomy and astrophysics, 549(A23):1–4, and DESY-2014-00788.
<http://dx.doi.org/10.1051/0004-6361/201220275>

G. Cullen et al.

GoSam @ LHC: algorithms and applications to Higgs production.

Proceedings of Science, and DESY-2014-00214, arXiv:1312.1761.

G. Cullen et al.

Next-to-Leading-Order QCD Corrections to Higgs Boson Production Plus Three Jets in Gluon Fusion.

Physical review letters, 111(13):131801, and DESY-2013-01412, arXiv:1307.4737; DESY-13-119; DF-06-2013; LPN-13-042; MPP-2013-193; SFB-CPP-13-46.
<http://dx.doi.org/10.1103/PhysRevLett.111.131801>

G. Cullen, N. Greiner, and G. Heinrich.

SUSY-QCD corrections to neutralino pair production in association with a jet.

The European physical journal / C, 73(4):2388, and DESY-2014-01833.
<http://dx.doi.org/10.1140/epjc/s10052-013-2388-8>

M. E. Dieckmann et al.

Parametric study of non-relativistic electrostatic shocks and the structure of their transition layer.

Physics of plasmas, 20(4):042111 –, and DESY-2014-00187.
<http://dx.doi.org/10.1063/1.4801447>

M. E. Dieckmann, G. Sarri, D. Doria, M. Pohl, and M. Borghesi.

Modification of the formation of high-Mach number electrostatic shock-like structures by the ion acoustic instability.

Physics of plasmas, 20:102112, and DESY-2014-00183.
<http://dx.doi.org/10.1063/1.4825339>

M. Dowling.

Top quark pair production in a running mass scheme.

Proceedings of Science, page 064, Trieste, 09/22/2013 – 09/27/2013 2013. 11th International Symposium on Radiative Corrections (Applications of Quantum Field Theory to Phenomenology), Durham(UK), SISSA.

M. Dowling and S.-O. Moch.

Top-quark Pair Production in a Running Mass Scheme.

Proceedings of Science, Trieste, 07/18/2013 – 07/24/2013 2013. The 2013 European Physical Society Conference on High Energy Physics, Stockholm(Sweden), SISSA.

M. Dowling and S.-O. Moch.

Top-quark pair production in a running mass scheme.

Proceedings of Science, PoS, page 214, Trieste, 07/18/2013 – 07/24/2013 2013. The 2013 European Physical Society Conference on High Energy Physics, Stockholm(Sweden), SISSA.

D. Eichler, R. Kumar, and M. Pohl.

IS THE GALACTIC COSMIC-RAY SPECTRUM CONSTANT IN TIME?

The astrophysical journal, 769(2):138, and DESY-2014-00178.
<http://dx.doi.org/10.1088/0004-637X/769/2/138>

X. Feng et al.

Computing the hadronic vacuum polarization function by analytic continuation.

Physical review / D, 88(3):034505, and DESY-2013-01414, arXiv:1305.5878; KEK-CP-286; DESY-13-085; JLAB-THY-13-1736; SFB-CPP-13-30; HU-EP-13-24.
<http://dx.doi.org/10.1103/PhysRevD.88.034505>

X. Feng et al.

Using analytic continuation for the hadronic vacuum polarization computation.

In *Proceedings of XXXI International Symposium on Lattice Field Theory, Proceedings of Science*, Trieste, 2013. 31st International Symposium on Lattice Field Theory, Mainz(Germany), SISSA.

P. Fritzsch and A. Ramos.

The gradient flow coupling in the Schrödinger functional.

Journal of high energy physics, 2013(10):1–30, and DESY-2014-00589, DESY-12-241, HU-EP-12-53, SFB-CPP-13-05, arXiv:1301.4388.
[http://dx.doi.org/10.1007/JHEP10\(2013\)008](http://dx.doi.org/10.1007/JHEP10(2013)008)

U. Gensh and M. Walter.

17th international Symposium on very high energy cosmic ray interactions..

The European physical journal / Web of Conferences, volume 52, Les Ulis, 08/10/2012 – 08/15/2012 2013. 17th international Symposium on very high energy cosmic ray interactions, Berlin(Germany), EDP Sciences.

J. González López, K. Jansen, D. B. Renner, and A. Shindler.

A quenched study of the Schrödinger functional with chirally rotated boundary conditions: Applications.

Nuclear physics / B, 867(3):609 – 635, and DESY-2014-01836, DESY-12-137, HU-EP-12-24, JLAB-THY-12-1606, SFB-CPP-12-55, arXiv:1208.4661.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.10.006>

J. González López, K. Jansen, D. B. Renner, and A. Shindler.
A quenched study of the Schrödinger functional with chirally rotated boundary conditions: Non-perturbative tuning.

Nuclear physics / B, 867(3):567 – 608, and
DESY-2014-01838, DESY-12-136, HU-EP-12-23,
JLAB-THY-12-1605, SFB-CPP-12-54, arXiv:1208.4591.
<http://dx.doi.org/10.1016/j.nuclphysb.2012.10.015>

R. Gozzini and F. Jankowski.

The supernova remnant W51C: a plausible source of galactic cosmic rays?

Journal of physics / Conference Series, volume 409, pages
1–6, Bristol, 2013. 23rd European Cosmic Ray Symposium,
Moscow(Russia), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/409/1/012116>

O. Gress et al.

Tunka-HiSCORE – A new array for multi-TeV astronomy and cosmic-ray physics.

Nuclear instruments & methods in physics research / A,
732:290 – 294, and DESY-2014-00902.
<http://dx.doi.org/10.1016/j.nima.2013.06.034>

M. Gross et al.

Preparations for a plasma wakefield acceleration (PWA) experiment at PITZ.

Nuclear instruments & methods in physics research / A, in
press:S0168900213015817, and DESY-2014-00243.
<http://dx.doi.org/10.1016/j.nima.2013.11.042>

M. Guthoff et al.

Radiation damage in the diamond based beam condition monitors of the CMS experiment at the Large Hadron Collider (LHC) at CERN.

Nuclear instruments & methods in physics research / A,
volume 730, pages 168 – 173, Amsterdam, 10/09/2012 -
10/12/2012 2013. 9th International Conference on Radiation
Effects on Semiconductor Material Detectors and Devices,
Florence(Italy), North-Holland Publ. Co.
<http://dx.doi.org/10.1016/j.nima.2013.05.041>

D. Göring, M. A. Klatt, C. Stegmann, and K. Mecke.

Morphometric analysis in gamma-ray astronomy using Minkowski functionals.

Astronomy and astrophysics, 555:A38 –, and
DESY-2014-01953.
<http://dx.doi.org/10.1051/0004-6361/201321136>

H. E. S. S. Collaboration.

Search for photon line-like signatures from Dark Matter annihilations with H.E.S.S..

Physical review letters, 110:041301, and PHPPUBDB-24687,
arXiv:1301.1173.
<http://dx.doi.org/10.1103/PhysRevLett.110.041301>

G. Herdoíza, K. Jansen, C. Michael, K. Ottnad, and
C. Urbach.

Determination of low-energy constants of Wilson chiral perturbation theory.

Journal of high energy physics, 2013(5):1–23, and
DESY-2014-00622, DESY-13-043, FTUAM-13-127,
IFT-UAM-CSIC-13-015, MITP-13-015, –SFB-CPP-13-18
,arXiv:1303.3516.
[http://dx.doi.org/10.1007/JHEP05\(2013\)038](http://dx.doi.org/10.1007/JHEP05(2013)038)

D. Hesse and R. Sommer.

A one-loop study of matching conditions for static-light flavor currents.

Journal of high energy physics, 2013:115, and
PHPPUBDB-25972, DESY 12-187; SFB-CPP-12-81;
arXiv:1211.0866.
[http://dx.doi.org/10.1007/JHEP02\(2013\)115](http://dx.doi.org/10.1007/JHEP02(2013)115)

IceCube Collaboration.

IceTop: The surface component of IceCube..

Nuclear instruments & methods in physics research / A,
700:188–220, and PHPPUBDB-24698, arXiv:1209.3218.
<http://dx.doi.org/10.1016/j.nima.2012.10.067>

Icecube Collaboration.

South Pole glacial climate reconstruction from multi-borehole laser particulate stratigraphy.

Journal of glaciology, 59(218):1117 – 1128, and
DESY-2014-01967.
<http://dx.doi.org/10.3189/2013JoG13J068>

K. Jansen.

Lattice computations for high energy and nuclear physics.

Journal of physics / Conference Series, volume 454, page
012042, Bristol, 2013. 24th IUPAP Conference on
Computational Physics, Kobe(Japan), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/454/1/012042>

F. Jegerlehner.

Application of Chiral Resonance Lagrangian Theories to the Muon $g - 2$.

Acta physica Polonica / B, 44(11):2257, and
DESY-2014-01450, DESY-13-239, HU-EP-13-76.
<http://dx.doi.org/10.5506/APhysPolB.44.2257>

T. Karg.

Acoustic Neutrino Detection in Ice: Past, Present, and Future.

AIP conference proceedings, volume 1535, pages 162–168,
Melville, NY, 06/19/2012 - 06/22/2012 2013. 5TH
INTERNATIONAL WORKSHOP ON ACOUSTIC AND
RADIO EEV NEUTRINO DETECTION ACTIVITIES,
Erlangen(Germany), Inst.
<http://dx.doi.org/10.1063/1.4807541>

Karg, Timo and Nahnauer, Rolf and Berdermann, Jens and
IceCube Collaboration.

First results on angular response and efficiency of acoustic sensors of the South Pole Acoustic Test Setup.

AIP conference proceedings, volume 1535, page 180, Melville,
NY, 06/19/2012 - 06/22/2012 2013. 5TH INTERNATIONAL
WORKSHOP ON ACOUSTIC AND RADIO EEV NEUTRINO
DETECTION ACTIVITIES, Erlangen(Germany), Inst.
<http://dx.doi.org/10.1063/1.4807544>

P. Korcyl, M. Koreñ, and J. Wosiek.

On Non-trivial Spectra of Trivial Gauge Theories.

Acta physica Polonica / B, 44(4):713 –, and
DESY-2014-01834, DESY-12-185.
<http://dx.doi.org/10.5506/APhysPolB.44.713>

D. Kostunin et al.

Tunka-Rex: Status and results of the first measurements.

Nuclear instruments & methods in physics research / A, in
press:S0168900213014617, and DESY-2014-00906,
arXiv:1310.8477.
<http://dx.doi.org/10.1016/j.nima.2013.10.070>

M. Kunas et al.

Hardware and first results of TUNKA-HiSCORE.

Nuclear instruments & methods in physics research / A, volume in press, page S0168900213017087, Amsterdam, 2013. Roma International Conference on Astroparticle Physics, Rom(Italy), North-Holland Publ. Co.
<http://dx.doi.org/10.1016/j.nima.2013.12.025>

J. Lange and M. Pohl.

The average GeV-band emission from gamma-ray bursts.

Astronomy and astrophysics, 551:A89 –, and DESY-2014-00196.
<http://dx.doi.org/10.1051/0004-6361/201220652>

G. Maier.

The origin of cosmic rays and TeV gamma-ray astronomy.

The European physical journal / Web of Conferences, volume 52, page 10001, Les Ulis, 08/10/2012 - 08/15/2012 2013. 17th international Symposium on very high energy cosmic ray interactions, Berlin(Germany), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20125210001>

M. Mayer et al.

RAPID GAMMA-RAY FLUX VARIABILITY DURING THE 2013 MARCH CRAB NEBULA FLARE.

The astrophysical journal / 2, 775(2):L37, and DESY-2014-00874.
<http://dx.doi.org/10.1088/2041-8205/775/2/L37>

D. Mazin et al.

Potential of EBL and cosmology studies with the Cherenkov Telescope Array.

Astroparticle physics, 43:241 – 251, and DESY-2014-01955.
<http://dx.doi.org/10.1016/j.astropartphys.2012.09.002>

E. Middell.

Recent results of a search for cosmogenic PeV to EeV neutrinos with IceCube.

The European physical journal / Web of Conferences, volume 52, page 09007, Les Ulis, 08/10/2012 - 08/15/2012 2013. 17th international Symposium on very high energy cosmic ray interactions, Berlin(Germany), EDP Sciences.
<http://dx.doi.org/10.1051/epjconf/20125209007>

N. Milke et al.

Solving inverse problems with the unfolding program TRUEE: Examples in astroparticle physics.

Nuclear instruments & methods in physics research / A, 697:133–147, and PHPPUBDB-24695, arXiv:1209.3218.
<http://dx.doi.org/10.1016/j.nima.2012.08.105>

A. Pawlak and C. Spiering.

Ohne Pontecorvo ist unser Gebiet nicht vorstellbar. Interview mit Christian Spiering.

Physik-Journal, 10:47, and DESY-2014-01243.

T. Pfoh.

Phenomenology of QCD threshold resummation for gluino pair production at NNLL.

Journal of high energy physics, 2013(5):44, and DESY-2014-00206, arXiv:1302.7202; DESY-13-035; LPN-13-021; SFB-CPP-13-16.
[http://dx.doi.org/10.1007/JHEP05\(2013\)044](http://dx.doi.org/10.1007/JHEP05(2013)044)

T. Poehlsen et al.

Charge losses in segmented silicon sensors at the Si-SiO₂ interface.

Nuclear instruments & methods in physics research / A, 700:22, and PHPPUBDB-24287, arXiv:1207.6538.
<http://dx.doi.org/10.1016/j.nima.2012.10.063>

M. Pohl and D. Eichler.

UNDERSTANDING TeV-BAND COSMIC-RAY ANISOTROPY.

The astrophysical journal, 766(1):4, and DESY-2014-00179.
<http://dx.doi.org/10.1088/0004-637X/766/1/4>

V. V. Prosin et al.

Tunka-133: Results of 3 year operation.

Nuclear instruments & methods in physics research / A, in press:S0168900213012527, and DESY-2014-00904.
<http://dx.doi.org/10.1016/j.nima.2013.09.018>

A. C. Rovero et al.

Design of a 7m Davies-Cotton Cherenkov telescope mount for the high energy section of the Cherenkov Telescope Array.

Experimental astronomy, 36(1-2):223 – 234, and DESY-2014-01940.
<http://dx.doi.org/10.1007/s10686-013-9333-6>

E. Schneidmiller, M. Yurkov, M. Krasilnikov, and F. Stephan.

Tunable IR/THz source for pump probe experiments at the European XFEL.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 - 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.
<http://dx.doi.org/10.1117/12.2017014>

F. G. Schröder et al.

Tunka-Rex: A radio antenna array for the Tunka experiment.

AIP conference proceedings, volume 1535, page 111, Melville, NY, 2013. 5TH INTERNATIONAL WORKSHOP ON ACOUSTIC AND RADIO EHV NEUTRINO DETECTION ACTIVITIES: ARENA 2012, Erlangen(Germany), Inst.
<http://dx.doi.org/10.1063/1.4807531>

F. G. Schröder et al.

Tunka-Rex: a Radio Extension of the Tunka Experiment.

Journal of physics / Conference Series, volume 409, page 012076, Bristol, 07/03/2012 - 07/07/2012 2013. 23rd European Cosmic Ray Symposium, Moscow(Russia), IOP Publ. <http://dx.doi.org/10.1088/1742-6596/409/1/012076>

R. Sommer.

Scale Setting in Lattice QCD.

Proceedings of Science, PoS(LATTICE2013), Trieste, 2013. 31st International Symposium on Lattice Field Theory, Mainz(Germany), SISSA.

I. Telezhinsky, V. V. Dwarkadas, and M. Pohl.

Acceleration of cosmic rays by young core-collapse supernova remnants.

Astronomy and astrophysics, 552:A102 –, and DESY-2014-00195.
<http://dx.doi.org/10.1051/0004-6361/201220740>

M. Tluczykont et al.

The HiSCORE experiment and its potential for gamma-ray astronomy.

Journal of physics / Conference Series, volume 409, page 012120, Bristol, 07/03/2012 - 07/07/2012 2013. 23rd European Cosmic Ray Symposium, Moscow(Russia), IOP Publ. <http://dx.doi.org/10.1088/1742-6596/409/1/012120>

M. C. Weisskopf et al.

CHANDRA, KECK, AND VLA OBSERVATIONS OF THE CRAB NEBULA DURING THE 2011-APRIL GAMMA-RAY FLARE.

The astrophysical journal, 765(1):56, and DESY-2014-01069.
<http://dx.doi.org/10.1088/0004-637X/765/1/56>

K. Jansen, H. Leovey, A. Ammon, A. Griewank, and M. Müller-Preussker.

Quasi-Monte Carlo methods for lattice systems: A first look.

Computer physics communications, 185(3):948–959, and DESY-2014-00620, DESY-13-022, HU-EP-13-05, SFB-CPP-13-13 ,arXiv:1302.6419.
<http://dx.doi.org/10.1016/j.cpc.2013.10.011>

Dissertationen

A. Hasselhuhn.

3-Loop Contributions to Heavy Flavor Wilson Coefficients of Neutral and Charged Current DIS.

Technische Universität Dortmund, 2013.

O. Novgorodova.

Characterisation and Application of Radiation Hard Sensors for LHC and ILC.

BTU Cottbus, 2013.

G. Vashchenko.

Transverse phase space studies with the new CDS booster cavity at PITZ.

University of Hamburg, Hamburg, 2013.

Masterarbeiten

M. Hempel.

Application of diamond based beam loss monitors at LHC.

BTU Cottbus, 2013.

R. Martin.

Characterization of the transverse profile of the PITZ photocathode laser.

Humboldt-University of Berlin, 2013.

Veröffentlichungen Forschung mit Photonen

CFEL

Veröffentlichungen

A. A. Amorim, L. M. Bernardo, F. Kaertner, and H. M. Crespo.

Direct carrier-envelope phase stabilization of a soliton-effect compressed sub-two-cycle pulse source through nonlinear mixing of solitonic and dispersive waves.

Applied physics / B, 111(4):659 – 664, and DESY-2014-00384.

<http://dx.doi.org/10.1007/s00340-013-5393-6>

A. Barty, J. Küpper, and H. N. Chapman.

Molecular imaging using X-ray free-electron lasers.

Annual review of physical chemistry, 64:415–435, and PHPPUBDB-25204.

<http://dx.doi.org/10.1146/annurev-physchem-032511-143708>

K. Beyerlein.

A review of Debye Function Analysis.

Powder diffraction, volume 28, pages S2 – S10, Cambridge, 2013. 13th European Powder Diffraction Conference, Grenoble(France), Cambridge Univ. Press.

<http://dx.doi.org/10.1017/S0885715613001218>

S. Bhardwaj et al.

Recombination-amplitude calculations of noble gases, in both length and acceleration forms, beyond the strong-field approximation.

Physical review / A, 88(5):053405, and DESY-2013-01230.

<http://dx.doi.org/10.1103/PhysRevA.88.053405>

T. Bierschenk et al.

Latent ion tracks in amorphous silicon.

Physical review / B, 88(17):174111, and DESY-2014-02062.

<http://dx.doi.org/10.1103/PhysRevB.88.174111>

A.-L. Calendron.

Dual-crystal Yb:CALGO high power laser and regenerative amplifier.

Optics express, 21(22):26174, and DESY-2014-00233.

<http://dx.doi.org/10.1364/OE.21.026174>

L. Cao, S. Krönke, O. Vendrell Romagosa, and P. Schmelcher.

The multi-layer multi-configuration time-dependent Hartree method for bosons: Theory, implementation, and applications.

The journal of chemical physics, 139(13):134103, and DESY-2013-00930. <http://dx.doi.org/10.1063/1.4821350>

F. Capotondi et al.

Invited Article: Coherent imaging using seeded free-electron laser pulses with variable polarization: First results and research opportunities.

Review of scientific instruments, 84(5):051301 – 11, and DESY-2013-00087. <http://dx.doi.org/10.1063/1.4807157>

Y.-P. Chang et al.

Specific Chemical Reactivities of Spatially Separated 3-Aminophenol Conformers with Cold Ca^+ Ions.

Science, 342(6154):98 – 101, and DESY-2013-01307, arXiv:1308.6538.

<http://dx.doi.org/10.1126/science.1242271>

H. Chapman, J. Kirz, and M. Stampanoni.

X-ray Microscopy and Microtomography.

Synchrotron radiation news, 26(2):2 – 3, and DESY-2013-01299.

<http://dx.doi.org/10.1080/08940886.2013.771061>

H.-W. Chen et al.

3 GHz, Yb-fiber laser-based, few-cycle ultrafast source at the Ti:sapphire laser wavelength.

Optics letters, 38(22):4927 –, and DESY-2013-01436.

<http://dx.doi.org/10.1364/OL.38.004927>

H. Demirci et al.

Serial femtosecond X-ray diffraction of 30S ribosomal subunit microcrystals in liquid suspension at ambient temperature using an X-ray free-electron laser.

Acta crystallographica / F, 69(9):1066 – 1069, and DESY-2013-00733.

<http://dx.doi.org/10.1107/S174430911302099X>

K. Dholakia et al.

Quasi-Bessel hollow beam as optical guide for micro-particles.

Proceedings of SPIE, 8810:11, and DESY-2014-02312.

<http://dx.doi.org/10.1117/12.2026654>

G. Dixit and R. Santra.

Role of electron-electron interference in ultrafast time-resolved imaging of electronic wavepackets.

The journal of chemical physics, 138:134311, and PHPPUBDB-26145. <http://dx.doi.org/10.1063/1.4798321>

G. Dixit, J. M. Slowik, and R. Santra.

Proposed imaging of the ultrafast electronic motion in samples using X-ray phase contrast.

Physical review letters, 110:137403, and PHPPUBDB-26109.

<http://dx.doi.org/10.1103/PhysRevLett.110.137403>

G. Dixit, H. S. Chakraborty, and M. E.-A. Madjet.

Time Delay in the Recoiling Valence Photoemission of Ar Endohedrally Confined in C_{60} .

Physical review letters, 111(20):203003, and DESY-2013-01130.

<http://dx.doi.org/10.1103/PhysRevLett.111.203003>

M. J. Duffy et al.

Fragmentation of Neutral Amino Acids and Small Peptides by Intense, Femtosecond Laser Pulses.

Journal of the American Society for Mass Spectrometry, 24(9):1366 – 1375, and DESY-2014-02089.

<http://dx.doi.org/10.1007/s13361-013-0653-6>

N. N. Dutta, S. Roy, G. Dixit, and S. Majumder.

Ab initio calculations of transition amplitudes and hyperfine A and B constants of Ga III.

Physical review / A, 87:012501, and PHPPUBDB-26116.

<http://dx.doi.org/10.1103/PhysRevA.87.012501>

N. Eckerskorn et al.

Hollow Bessel-like beam as an optical guide for a stream of microscopic particles.

Optics express, 21(25):30492, and DESY-2013-01319.

<http://dx.doi.org/10.1364/OE.21.030492>

B. Erk et al.

Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging.

Journal of physics / B, 46(16):164031, and DESY-2014-02078. <http://dx.doi.org/10.1088/0953-4075/46/16/164031>

B. Erk et al.

Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules. *Physical review letters*, 110(5):053003, and DESY-2014-02082.

<http://dx.doi.org/10.1103/PhysRevLett.110.053003>

X. Fu, K.-H. Hong, L.-J. Chen, and F. Kaertner.

Performance scaling of high-power picosecond cryogenically cooled rod-type Yb:YAG multipass amplification.

Journal of the Optical Society of America / B, 30(11):2798 – 2809, and DESY-2013-01437. <http://dx.doi.org/10.1364/JOSAB.30.002798>

H. Fukuzawa et al.

Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses.

Physical review letters, 110(17):173005, and DESY-2014-01081. <http://dx.doi.org/10.1103/PhysRevLett.110.173005>

J. Gaudin et al.

Photon energy dependence of graphitization threshold for diamond irradiated with an intense XUV FEL pulse.

Physical review / B, 88(6):060101, and DESY-2013-00580. <http://dx.doi.org/10.1103/PhysRevB.88.060101>

S. A. Gorbunov, N. Medvedev, P. N. Terekhin, and A. E. Volkov.

The microscopic model of material excitation in swift heavy ion tracks.

Physica status solidi / C, 10(4):697 – 700, and DESY-2013-00466. <http://dx.doi.org/10.1002/pssc.201200875>

S. A. Gorbunov, P. N. Terekhin, N. Medvedev, and A. E. Volkov.

Combined model of the material excitation and relaxation in swift heavy ion tracks.

Nuclear instruments & methods in physics research / B, 315:173 – 178, and DESY-2014-01965. <http://dx.doi.org/10.1016/j.nimb.2013.04.082>

J. L. Hansen et al.

Mixed-field orientation of molecules without rotational symmetry.

The journal of chemical physics, 139(23):234313 –, and DESY-2014-01862. <http://dx.doi.org/10.1063/1.4848735>

B. Hoher et al.

Modeling of Oxidized PTH (oxPTH) and Non-oxidized PTH (n-oxPTH) Receptor Binding and Relationship of Oxidized to Non-Oxidized PTH in Children with Chronic Renal Failure, Adult Patients on Hemodialysis and Kidney Transplant Recipients.

Kidney & blood pressure research, 37(4-5):240 – 251, and DESY-2014-02081. <http://dx.doi.org/10.1159/000350149>

D. Horke, A. S. Chatterley, and J. R. R. Verlet.

Influence of the repulsive Coulomb barrier on photoelectron spectra and angular distributions in a resonantly excited dianion.

The journal of chemical physics, 139(8):084302, and DESY-2014-02239. <http://dx.doi.org/10.1063/1.4818597>

S.-W. Huang et al.

High conversion efficiency, high energy terahertz pulses by optical rectification in cryogenically cooled lithium niobate. *Optics letters*, 38:796, and PHPPUBDB-25975.

<http://dx.doi.org/10.1364/OL.38.000796>

L. C. Johansson et al.

Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography.

Nature Communications, 4:2911, and DESY-2014-01814. <http://dx.doi.org/10.1038/ncomms3911>

L. Juha et al.

Non-thermal phase transitions in semiconductors under femtosecond XUV irradiation.

Proceedings of SPIE, 8777:877709, and DESY-2013-00464. <http://dx.doi.org/10.1117/12.2019123>

L. Juha et al.

Electron kinetics in liquid water excited by a femtosecond VUV laser pulse.

Proceedings of SPIE, 8777:87770S, and DESY-2013-00465. <http://dx.doi.org/10.1117/12.2020451>

Z. Jurek and G. Faigel.

Orienting single-molecule diffraction patterns from XFELs using heavy-metal explosion fragments.

epl, 101(1):16007 –, and DESY-2014-01962. <http://dx.doi.org/10.1209/0295-5075/101/16007>

A. Karamatskou, S. Pabst, and R. Santra.

Adiabaticity and diabaticity in strong-field ionization.

Physical review / A, 87:043422, and PHPPUBDB-26549. <http://dx.doi.org/10.1103/PhysRevA.87.043422>

P. D. Keathley et al.

Strong-field photoemission from silicon field emitter arrays.

Annalen der Physik, 525(1-2):144 – 150, and DESY-2014-00383. <http://dx.doi.org/10.1002/andp.201200189>

C.-J. Lai et al.

Wavelengths Scaling of high harmonic generation close to the multiphoton ionization regime.

Physical review letters, 111(7):073901, and DESY-2013-00759.

<http://dx.doi.org/10.1103/PhysRevLett.111.073901>

W. Li et al.

Effect of doping on the radiation response of conductive Nb-SrTiO₃.

Nuclear instruments & methods in physics research / B, 302:40 – 47, and DESY-2014-01964. <http://dx.doi.org/10.1016/j.nimb.2013.03.010>

Z. Li, M. Madjet, O. Vendrell, and R. Santra.

Correlated Dynamics of the Motion of Proton-Hole Wave Packets in a Photoionized Water Cluster.

Physical review letters, 110:038302, and PHPPUBDB-24670. <http://dx.doi.org/10.1103/PhysRevLett.110.038302>

- J. Lim, H.-W. Chen, G. Chang, and F. Kaertner.
Frequency comb based on a narrowband Yb-fiber oscillator: pre-chirp management for self-referenced carrier envelope offset frequency stabilization.
Optics express, 21:4531, and PHPPUBDB-25912.
<http://dx.doi.org/10.1364/OE.21.004531>
- W. Liu et al.
Serial Femtosecond Crystallography of G Protein-Coupled Receptors.
Science, 342(6165):1521 – 1524, and DESY-2014-01260.
<http://dx.doi.org/10.1126/science.1244142>
- N. D. Loh et al.
Sensing the wavefront of x-ray free-electron lasers using aerosol spheres.
Optics express, 21(10):12385, and DESY-2013-01298.
<http://dx.doi.org/10.1364/OE.21.012385>
- M. E. A. Madjet, Z. Li, and O. Vendrell.
Non-Born-Oppenheimer dynamics of the photoionized Zundel cation: A quantum wavepacket and surface-hopping study.
The journal of chemical physics, 138:094313, and PHPPUBDB-25986. <http://dx.doi.org/10.1063/1.4793274>
- M. E. A. Madjet, Z. Li, and O. Vendrell Romagosa.
Ultrafast hydrogen migration in acetylene cation driven by non-adiabatic effects.
The journal of chemical physics, 138:094311, and PHPPUBDB-25987. <http://dx.doi.org/10.1063/1.4793215>
- M. Malvestuto et al.
Nature of the apical and planar oxygen bonds in the $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ family ($n=1,2,3$).
Physical review / B, 88(19):195143, and DESY-2014-02080.
<http://dx.doi.org/10.1103/PhysRevB.88.195143>
- A. V. Martin et al.
The extraction of single-particle diffraction patterns from a multiple-particle diffraction pattern.
Optics express, 21(13):15102, and DESY-2013-01296.
<http://dx.doi.org/10.1364/OE.21.015102>
- N. Medvedev, H. O. Jeschke, and B. Ziaja.
Nonthermal graphitization of diamond induced by a femtosecond x-ray laser pulse.
Physical review / B, 88(22):1–10, and DESY-2014-00448.
<http://dx.doi.org/10.1103/PhysRevB.88.224304>
- N. Medvedev, H. O. Jeschke, and B. Ziaja.
Nonthermal phase transitions in semiconductors induced by a femtosecond extreme ultraviolet laser pulse.
New journal of chemistry, 15:015016, and PHPPUBDB-25478.
<http://dx.doi.org/10.1088/1367-2630/15/1/015016>
- N. Medvedev, B. Ziaja-Motyka, M. Cammarata, M. Harmand, and S. Toleikis.
Electron Kinetics in Femtosecond X-Ray Irradiated SiO_2 .
Contributions to plasma physics, 53(4-5):347 – 354, and DESY-2013-00462.
<http://dx.doi.org/10.1002/ctpp.201200095>
- J. Mikosch et al.
Indirect Dynamics in a Highly Exoergic Substitution Reaction.
Journal of the American Chemical Society, 135(11):4250 – 4259, and DESY-2014-02087.
<http://dx.doi.org/10.1021/ja308042v>
- P. K. Mishra, O. Vendrell Romagosa, and R. Santra.
Ultrafast Energy Transfer to Liquid Water by Sub-Picosecond High-Intensity Terahertz Pulses: An AbInitio Molecular Dynamics Study.
Angewandte Chemie / International edition, 52(51):13685 – 13687, and DESY-2014-01949.
<http://dx.doi.org/10.1002/anie.201305991>
- P. K. Mondal, N. N. Dutta, G. Dixit, and S. Majumder.
Effect of screening on spectroscopic properties of Li-like ions in a plasma environment.
Physical review / A, 87(6):062502, and DESY-2013-00459.
<http://dx.doi.org/10.1103/PhysRevA.87.062502>
- K. Motomura et al.
Sequential multiphoton multiple ionization of atomic argon and xenon irradiated by X-ray free-electron laser pulses from SACLA.
Journal of physics / B, 46(16):164024, and DESY-2013-00609.
<http://dx.doi.org/10.1088/0953-4075/46/16/164024>
- L. Mueller et al.
Breakdown of the X-Ray Resonant Magnetic Scattering Signal during Intense Pulses of Extreme Ultraviolet Free-Electron-Laser Radiation.
Physical review letters, 110(23):234801, and DESY-2013-00460.
<http://dx.doi.org/10.1103/PhysRevLett.110.234801>
- S. P. Nabanja et al.
Large-area broad band saturable Bragg reflectors using oxidized AIs in the circular and inverted mesa geometries.
Journal of applied physics, 113:163102, and PHPPUBDB-26546. <http://dx.doi.org/10.1063/1.4802694>
- O. Osmani, N. Medvedev, J. I. Juaristi, M. Schleberger, and B. Rethfeld.
Transient metal-like electrical conductivity in swift heavy ion irradiated insulators.
Nuclear instruments & methods in physics research / B, 317:72 – 76, and DESY-2014-01957.
<http://dx.doi.org/10.1016/j.nimb.2012.12.092>
- R. Otto et al.
Exit Channel Dynamics in a Micro-Hydrated S N_2 Reaction of the Hydroxyl Anion.
The journal of physical chemistry / A, 117(34):8139 – 8144, and DESY-2014-02083.
<http://dx.doi.org/10.1021/jp401347p>
- S. Pabst.
Atomic and molecular dynamics triggered by ultrashort light pulses on the atto- to picosecond time scale.
European physical journal special topics, 221(1):1 – 71, and DESY-2014-02072.
<http://dx.doi.org/10.1140/epjst/e2013-01819-x>
- S. Pabst and R. Santra.
Strong-field many-body physics and the giant enhancement in the high-harmonic spectrum of Xenon.
Physical review letters, 111(23):233005, and DESY-2014-01879.
<http://dx.doi.org/10.1103/PhysRevLett.111.233005>

- H. J. Park et al.
Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers.
Optics express, 21(23):28729, and DESY-2013-01295.
<http://dx.doi.org/10.1364/OE.21.028729>
- E. Pedersoli et al.
Mesoscale morphology of airborne core-shell nanoparticle clusters: x-ray laser coherent diffraction imaging.
Journal of physics / B, 46(16):164033, and DESY-2013-01297.
<http://dx.doi.org/10.1088/0953-4075/46/16/164033>
- M. Y. Peng et al.
Long-term stable, sub-femtosecond timing distribution via a 12-km polarization-maintaining fiber link: approaching 10^{-21} link stability.
Optics express, 21(17):19982 –, and DESY-2013-00760.
<http://dx.doi.org/10.1364/OE.21.019982>
- W. P. Putnam, M. D. W. Grogan, S. Ramachandran, F. Kaertner, and D. Schimpf.
Radially polarized Bessel-Gauss beams: decentered Gaussian beam analysis and experimental verification.
Optics express, 21(15):18469 –, and DESY-2013-00447.
<http://dx.doi.org/10.1364/OE.21.018469>
- L. Redecke et al.
Natively inhibited Trypanosoma brucei cathepsin B structure determined by using an X-ray laser.
Science, 339:227–230, and PHPPUBDB-24619.
<http://dx.doi.org/10.1126/science.1229663>
- T. Renger, M. E.-A. Madjet, M. Schmidt am Busch, J. Adolphs, and F. Müh.
Structure-based modeling of energy transfer in photosynthesis.
Photosynthesis research, 116(2-3):367 – 388, and DESY-2013-00952.
<http://dx.doi.org/10.1007/s11120-013-9893-3>
- R. Riedel et al.
Long-term stabilization of high power optical parametric chirped-pulse amplifiers.
Optics express, 21(23):28987, and DESY-2014-02205.
<http://dx.doi.org/10.1364/OE.21.028987>
- B. Rudek et al.
Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser.
Physical review / A, 87:023413, and PHPPUBDB-25915.
<http://dx.doi.org/10.1103/PhysRevA.87.023413>
- J. R. Schneider.
Revolution in der Röntgentechnik.
Physik in unserer Zeit, 44(1):3, and PHPPUBDB-26517.
- J. M. Slowik and R. Santra.
X-ray phase-contrast imaging: the quantum perspective.
Journal of physics / B, 46(16):164016 –, and DESY-2013-00610.
<http://dx.doi.org/10.1088/0953-4075/46/16/164016>
- S.-K. Son, H. N. Chapman, and R. Santra.
Determination of multiwavelength anomalous diffraction coefficients at high x-ray intensity.
Journal of physics / B, 46(16):164015, and DESY-2013-00608.
<http://dx.doi.org/10.1088/0953-4075/46/16/164015>
- H. Suchowski, P. Krogen, S.-W. Huang, F. Kaertner, and J. Moses.
Octave-spanning coherent mid-IR generation via adiabatic difference frequency conversion.
Optics express, 21(23):28892–28901, and DESY-2013-01384.
<http://dx.doi.org/10.1364/OE.21.028892>
- E. J. Takahashi, P. Lan, O. Muecke, Y. Nabekawa, and K. Midorikawa.
Attosecond nonlinear optics using gigawatt-scale isolated attosecond pulses.
Nature Communications, 4:2691, and DESY-2013-01383.
<http://dx.doi.org/10.1038/ncomms3691>
- S. Trippel et al.
Strongly aligned and oriented molecular samples at a kHz repetition rate.
Molecular physics, 111(12-13):1738 – 1743, and DESY-2014-02100.
<http://dx.doi.org/10.1080/00268976.2013.780334>
- S. Trippel, M. Stei, J. Cox, and R. Wester.
Differential Scattering Cross-Sections for the Different Product Vibrational States in the Ion-Molecule Reaction Ar^{++}N_2 .
Physical review letters, 110(16):163201, and DESY-2014-02086.
<http://dx.doi.org/10.1103/PhysRevLett.110.163201>
- Y. Wang et al.
Production, Purification and Characterization of Recombinant, Full-Length Human Claudin-1.
PLoS one, 8(5):e64517 –, and DESY-2014-02084.
<http://dx.doi.org/10.1371/journal.pone.0064517>
- T. White et al.
Crystallographic data processing for free-electron laser sources.
Acta crystallographica / D, 69(7):1231 – 1240, and DESY-2013-00161.
<http://dx.doi.org/10.1107/S0907444913013620>
- A. Wirth, R. Santra, and E. Goulielmakis.
Real time tracing of valence-shell electronic coherences with attosecond transient absorption spectroscopy.
The journal of chemical physics, 414:149–159, and PHPPUBDB-26078.
<http://dx.doi.org/10.1016/j.chemphys.2012.06.003>
- L. J. Wong, A. Fallahi, and F. Kaertner.
Compact electron acceleration and bunch compression in THz waveguides.
Optics express, 21:9792, and PHPPUBDB-26299.
<http://dx.doi.org/10.1364/OE.21.009792>
- B. Ziaja, Z. Jurek, N. Medvedev, R. Thiele, and S. Toleikis.
A review of environment-dependent processes within FEL excited matter.
High energy density physics, 9(3):462 – 472, and DESY-2014-01793.
<http://dx.doi.org/10.1016/j.hedp.2013.04.014>
- B. Ziaja et al.
Photoelectron spectroscopy method to reveal ionization potential lowering in nanoplasmas.
Journal of physics / B, 46(16):164009, and DESY-2013-00607.
<http://dx.doi.org/10.1088/0953-4075/46/16/164009>

A. Zozulya et al.

In situ X-ray crystallographic study of the structural evolution of colloidal crystals upon heating.

Journal of applied crystallography, 46(4):903–907, and DESY-2013-00133.

<http://dx.doi.org/10.1107/S0021889813003725>

Dissertationen

B. Erk.

Fragmentation Dynamics of Small Molecules upon Multiple Ionization by X-Ray Free-Electron Laser Pulses.

Heidelberg University, Heidelberg, 2013.

S. Pabst.

New Theoretical Approaches to Atomic and Molecular Dynamics triggered by Ultrashort Light Pulses on the Atto- to Picosecond Time Scale.

Univ. Hamburg, Hamburg, 2013.

S. Stern.

Controlled Molecules for X-ray Diffraction Experiments at Free-Electron Lasers.

University of Hamburg, DESY, 2013.

Masterarbeiten

S. Valente.

Timing Distribution with Femtosecond Modelocked Lasers.

University of L'Aquila, L'Aquila, Hamburg, 2013.

EMBL

Veröffentlichungen

A. Begum et al.

Staphylococcus aureus thiaminase II: oligomerization warrants proteolytic protection against serine proteases.

Acta crystallographica / D, 69(12):2320 – 2329, and DESY-2014-01266.

<http://dx.doi.org/10.1107/S0907444913021550>

M. Gruber et al.

Correlating Structure and Morphology to Device Performance of Molecular Organic Donor-Acceptor Photovoltaic Cells Based on Diindenoperylene (DIP) and C 60.

Advanced energy materials, 3(8):1075 – 1083, and DESY-2014-01490.

<http://dx.doi.org/10.1002/aenm.201201012>

E. Metwalli et al.

Cobalt Nanoparticles Growth on a Block Copolymer Thin Film: A Time-Resolved GISAXS Study.

Langmuir, 29(21):6331 – 6340, and DESY-2014-01484.

<http://dx.doi.org/10.1021/la400741b>

L. Redecke et al.

Natively inhibited Trypanosoma brucei cathepsin B structure determined by using an X-ray laser.

Science, 339:227–230, and PHPPUBDB-24619.

<http://dx.doi.org/10.1126/science.1229663>

A. Shehzad et al.

P450 BM3 crystal structures reveal the role of the charged surface residue Lys/Arg184 in inversion of enantioselective styrene epoxidation.

Chemical communications, 49(41):4694 – 4696, and

DESY-2014-01823. <http://dx.doi.org/10.1039/c3cc39076d>

C. A. G. Soderberg et al.

The Molecular Basis of Iron-induced Oligomerization of Frataxin and the Role of the Ferroxidation Reaction in Oligomerization.

The journal of biological chemistry, 288:8156, and PHPPUBDB-26381.

<http://dx.doi.org/10.1074/jbc.M112.442285>

FS

Veröffentlichungen

R. P. Kurta, M. Altarelli, and I. A. Vartanyants.

X-Ray Cross-Correlation Analysis of Disordered Ensembles of Particles: Potentials and Limitations.

Advances in condensed matter physics, and.

S. Ackermann et al.

Generation of Coherent 19- and 38-nm Radiation at a Free-Electron Laser Directly Seeded at 38 nm.

Physical review letters, 111(11):114801, and DESY-2013-01108.

<http://dx.doi.org/10.1103/PhysRevLett.111.114801>

S. Ackermann, B. Faatz, and V. Miltchev.

Modal analysis of a seeded free-electron laser.

Physical review / Special topics / Accelerators and beams, 16(10):1–5, and DESY-2014-00472.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.100702>

M. Al-Hussein et al.

In Situ X-ray Study of the Structural Evolution of Gold Nano-Domains by Spray Deposition on Thin Conductive P3HT Films.

Langmuir, 29(8):2490 – 2497, and DESY-2014-01488.

<http://dx.doi.org/10.1021/la3048483>

T. Alammar, H. Noei, Y. Wang, and A.-V. Mudring.

Mild yet phase-selective preparation of TiO₂ nanoparticles from ionic liquids – a critical study.

Nanoscale, 5(17):8045 –, and DESY-2014-01892.

<http://dx.doi.org/10.1039/c3nr00824j>

O. L. G. Alderman et al.

Lone-Pair Distribution and Plumbite Network Formation in High Lead Silicate Glass, 80Pb_{0.20}SiO₂.

Physical Chemistry Chemical Physics, 15:8506–8519, and PHPPUBDB-26509. <http://dx.doi.org/10.1039/c3cp51348c>

M. Alfeld et al.

Revealing hidden paint layers in oil paintings by means of scanning macro-XRF: a mock-up study based on Rembrandt's "Old man in military costume".

Journal of analytical atomic spectrometry, 28:40–51, and

PHPPUBDB-25224. <http://dx.doi.org/10.1039/c2ja30119a>

M. Alfeld et al.

Scanning XRF investigation of a Flower Still Life and its underlying composition from the collection of the Kröller-Müller Museum.

Applied physics / A, 111(1):165 – 175, and DESY-2014-01799.

<http://dx.doi.org/10.1007/s00339-012-7526-x>

K. Alshibli, M. B. Cil, P. Kenesei, and U. Lienert.

Strain tensor determination of compressed individual silica sand particles using high-energy synchrotron diffraction.

Granular matter, 15(5):517 – 530, and DESY-2014-02210.

<http://dx.doi.org/10.1007/s10035-013-0424-x>

R. Alvarez et al.

Growth regimes of porous gold thin films deposited by magnetron sputtering at oblique incidence: from compact to columnar microstructures.

Nanotechnology, 24:045604, and PHPPUBDB-23989.

<http://dx.doi.org/10.1088/0957-4484/24/4/045604>

M. Amirkhani, S. Sharifi, S. d. S. Funari, and O. Marti.

Depletion induced sphere-cylinder transition in C12E5 microemulsion: A Small-Angle X-ray Scattering study.

Molecular physics, online, and DESY-2014-01304.

<http://dx.doi.org/10.1080/00268976.2013.860243>

A. A. Amorim, L. M. Bernardo, F. Kaertner, and H. M. Crespo.

Direct carrier-envelope phase stabilization of a soliton-effect compressed sub-two-cycle pulse source through nonlinear mixing of solitonic and dispersive waves.

Applied physics / B, 111(4):659 – 664, and DESY-2014-00384.

<http://dx.doi.org/10.1007/s00340-013-5393-6>

E. Andresen et al.

Different strategies of cadmium detoxification in the submerged macrophyte *Ceratophyllum demersum* L..

Metallomics, 5(10):1377–1386, and DESY-2014-01341.

<http://dx.doi.org/10.1039/c3mt00088e>

M. M. L. Arras, C. Schillai, T. F. Keller, R. Schulze, and K. D. Jandt.

Alignment of multi-wall carbon nanotubes by disentanglement in ultra-thin melt-drawn polymer films.

Carbon, 60:366 – 378, and DESY-2014-01256.

<http://dx.doi.org/10.1016/j.carbon.2013.04.049>

P. Bach, A. Seemayer, U. Ruett, and O. Gutowski.

Electrochemical Cells for In-Situ XRD Studies of Insertion and Extraction Mechanisms of Lithium in Anode Materials for Lithium Ion Batteries Tested at Aluminum Model Electrodes; 223.

ECS transactions, volume 53, pages 29–39, Pennington, NJ, 05/12/2013 – 05/16/2013 2013. ECS, Toronto(Canada), Electrochemical Society (ECS).

<http://dx.doi.org/10.1149/05329.0029ecst>

J. Bak-Misiuk et al.

Variation of strain in granular GaAs:MnAs layers.

Crystallography reports, 58(7):998 – 1001, and DESY-2014-01858.

<http://dx.doi.org/10.1134/S1063774513070043>

M. Bakr et al.

Lattice dynamical signature of charge density wave formation in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$.

Physical review / B, 88:214517, and DESY-2014-00144.

<http://dx.doi.org/10.1103/PhysRevB.88.214517>

A. Bartnik et al.

Photo-ionized neon plasmas induced by radiation pulses of a laser-plasma EUV source and a free electron laser FLASH.

Laser and particle beams, 31(02):195 – 201, and DESY-2014-01790.

<http://dx.doi.org/10.1017/S0263034613000050>

A. Barty, J. Küpper, and H. N. Chapman.

Molecular imaging using X-ray free-electron lasers.

Annual review of physical chemistry, 64:415–435, and PHPPUBDB-25204.

<http://dx.doi.org/10.1146/annurev-physchem-032511-143708>

J. Bauer, M. Luchitskaia, L. Bayarjargal, W. Morgenroth, and B. Winkler.

Pressure-induced phase transitions in sodium europium carbonate ($\text{Na}_3\text{Eu}(\text{CO}_3)_3$) and europium-doped yttrium sesquioxide ($\text{Y}_2\text{O}_3 : \text{Eu}^{3+}$) by time-resolved laser fluorescence spectroscopy.

High pressure research, 33(3):652–662, and DESY-2013-00938.

<http://dx.doi.org/10.1080/08957959.2013.801962>

A. J. Beaudoin et al.

In situ assessment of lattice strain in an Al–Li alloy.

Acta materialia, 61(9):3456 – 3464, and DESY-2014-02222.

<http://dx.doi.org/10.1016/j.actamat.2013.02.037>

J. Becker et al.

High speed cameras for X-rays: AGIPD and others.

Journal of Instrumentation, volume 8, pages C01042 – C01042, London, 09/17/2012 – 09/21/2012 2013. Topical Workshop on Electronics for Particle Physics 2012, Oxford(United Kingdom), Inst. of Physics.

<http://dx.doi.org/10.1088/1748-0221/8/01/C01042>

J. Becker et al.

Performance tests of an AGIPD 0.4 assembly at the beamline P10 of PETRA III.

Journal of Instrumentation, 8:P06007, and DESY-2014-01942.

<http://dx.doi.org/10.1088/1748-0221/8/06/P06007>

J. Bednarcik, S. Michalik, V. Kolesar, U. Ruett, and H. Franz.

In situ XRD studies of nanocrystallization of Fe-based metallic glass: a comparative study by reciprocal and direct space methods.

Physical chemistry, chemical physics, 15(22):8470–8479, and DESY-2013-00291.

<http://dx.doi.org/10.1039/c3cp44445g>

A. M. T. Bell and C. M. B. Henderson.

Sr-fresnoite determined from synchrotron X-ray powder diffraction data.

Acta crystallographica / E, E69:1, and PHPPUBDB-22917.

<http://dx.doi.org/http://dx.doi.org/10.1107/S1600536812048921>

A. M. T. Bell, H.-P. Liermann, J. Bednarcik, and C. M. B. Henderson.

Synchrotron X-ray powder diffraction study on synthetic Sr-Fresnoite.

Powder diffraction, 28(S2):S333 – S338, and DESY-2014-01909.

<http://dx.doi.org/10.1017/S0885715613000936>

G. Berner et al.

Band alignment in $\text{LaAlO}_3/\text{SrTiO}_3$ oxide heterostructures inferred from hard x-ray photoelectron spectroscopy.
Physical review / B, 88(11):115111, and DESY-2013-00979.
<http://dx.doi.org/10.1103/PhysRevB.88.115111>

F. Bertram, C. Deiter, T. Schemme, S. Jentsch, and J. Wollschläger.

Reordering between tetrahedral and octahedral sites in ultrathin magnetite films grown on $\text{MgO}(001)$.
Journal of applied physics, 113:184103, and PHPPUBDB-26542. <http://dx.doi.org/10.1063/1.4803894>

D. Bessas et al.

Lattice instabilities in bulk EuTiO_3 .
Physical review / B, 88(14):144308, and DESY-2013-01133.
<http://dx.doi.org/10.1103/PhysRevB.88.144308>

D. Bessas et al.

Phonon spectroscopy in a Bi_2Te_3 nanowire array.
Nanoscale, 5(21):10629–10635, and DESY-2013-00815.
<http://dx.doi.org/10.1039/c3nr02918b>

K. Beyerlein.

A review of Debye Function Analysis.
Powder diffraction, volume 28, pages S2 – S10, Cambridge, 2013. 13th European Powder Diffraction Conference, Grenoble(France), Cambridge Univ. Press.
<http://dx.doi.org/10.1017/S0885715613001218>

S. Bhardwaj et al.

Recombination-amplitude calculations of noble gases, in both length and acceleration forms, beyond the strong-field approximation.
Physical review / A, 88(5):053405, and DESY-2013-01230.
<http://dx.doi.org/10.1103/PhysRevA.88.053405>

T. Bierschenk et al.

Latent ion tracks in amorphous silicon.
Physical review / B, 88(17):174111, and DESY-2014-02062.
<http://dx.doi.org/10.1103/PhysRevB.88.174111>

E. Blackburn et al.

X-Ray Diffraction Observations of a Charge-Density-Wave Order in Superconducting Ortho-II $\text{YBa}_2\text{Cu}_3\text{O}_{6.54}$ Single Crystals in Zero Magnetic Field.
Physical review letters, 110:137004, and PHPPUBDB-26265.
<http://dx.doi.org/10.1103/PhysRevLett.110.137004>

L. Bocklage, F.-U. Stein, M. Martens, T. Matsuyama, and G. Meier.

Time structure of fast domain wall creation by localized fields in a magnetic nanowire.
Applied physics letters, 103(9):092406, and DESY-2013-00827. <http://dx.doi.org/10.1063/1.4819729>

J. C. Bode, J. Kuntsche, S. S. Funari, and H. Bunjes.

Interaction of dispersed cubic phases with blood components.
International journal of pharmaceutics, 448(1):87 – 95, and DESY-2014-02187.
<http://dx.doi.org/10.1016/j.ijpharm.2013.03.016>

U. Boesenberg et al.

Mesoscale Phase Distribution in Single Particles of LiFePO_4 following Lithium Deintercalation.
Chemistry of materials, 25(9):1664 – 1672, and DESY-2014-01931. <http://dx.doi.org/10.1021/cm400106k>

D. K. Bora et al.

Between photocatalysis and photosynthesis: Synchrotron spectroscopy methods on molecules and materials for solar hydrogen generation.
Journal of electron spectroscopy and related phenomena, 190(Part A):93 – 105, and DESY-2013-01310.
<http://dx.doi.org/10.1016/j.elspec.2012.11.009>

S. Boseggia et al.

Robustness of basal-plane antiferromagnetic order and the $J_{\text{eff}} = 1/2$ state in single-layer iridate spin-orbit mott insulators.
Physical review letters, 110:117207, and PHPPUBDB-26046.
<http://dx.doi.org/10.1103/PhysRevLett.110.117207>

S. Boseggia et al.

Locking of iridium magnetic moments to the correlated rotation of oxygen octahedra in Sr_2IrO_4 revealed by x-ray resonant scattering.
Journal of physics / Condensed matter, 25(42):422202 –, and DESY-2014-02058.
<http://dx.doi.org/10.1088/0953-8984/25/42/422202>

K. Brüning, K. Schneider, S. V. Roth, and G. Heinrich.

Strain-induced crystallization around a crack tip in natural rubber under dynamic load.
Polymer, 54(22):6200 – 6205, and DESY-2014-01181.
<http://dx.doi.org/10.1016/j.polymer.2013.08.045>

A. Burkhardt et al.

Structure determination from a single high-pressure-frozen virus crystal.
Acta crystallographica / D, 69(2):308 – 312, and DESY-2013-01009.
<http://dx.doi.org/10.1107/S090744491204543X>

L. Bučinský et al.

On the Electronic Structure of $\text{mer,trans} - [\text{RuCl}_3(1H - \text{indazole})_2(\text{NO})]$, a Hypothetical Metabolite of the Antitumor Drug Candidate KP1019: An Experimental and DFT Study.
European journal of inorganic chemistry, 2013(14):2505 – 2519, and DESY-2014-01871.
<http://dx.doi.org/10.1002/ejic.201201526>

M. Bykov, E. Bykova, M. Hanfland, H.-P. Liermann, and S. van Smaalen.

Superspace approach to high pressure superstructures.
High pressure research, 33(3):501 – 510, and DESY-2013-01136.
<http://dx.doi.org/10.1080/08957959.2013.822076>

M. Bykov et al.

High-pressure behavior of FeOCl .
Physical review / B, 88(1):014110, and DESY-2013-01134.
<http://dx.doi.org/10.1103/PhysRevB.88.014110>

E. Bykova et al.

Novel high pressure monoclinic Fe_2O_3 polymorph revealed by single-crystal synchrotron X-ray diffraction studies.
High pressure research, 33(3):534 – 545, and DESY-2013-01137.
<http://dx.doi.org/10.1080/08957959.2013.833613>

Y. Q. Cai et al.

The ultrahigh resolution IXS beamline of NSLS-II: recent advances and scientific opportunities.

Journal of physics / Conference Series, volume 425, page 202001, Bristol, 2012-07-09 - 2012-07-13 2013. 11th International Conference on Synchrotron Radiation Instrumentation 2012, Lyon(France), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/425/20/202001>

A.-L. Calendron.

Dual-crystal Yb:CALGO high power laser and regenerative amplifier.

Optics express, 21(22):26174, and DESY-2014-00233.
<http://dx.doi.org/10.1364/OE.21.026174>

G. Campi et al.

Imaging regenerating bone tissue based on neural networks applied to micro-diffraction measurements.

Applied physics letters, 103(25):253703 -, and DESY-2014-02197. <http://dx.doi.org/10.1063/1.4852056>

G. Campi et al.

Scanning micro-x-ray diffraction unveils the distribution of oxygen chain nanoscale puddles in $YBa_2Cu_3O_{6.33}$.

Physical review / B, 87(1):014517, and DESY-2014-02200.
<http://dx.doi.org/10.1103/PhysRevB.87.014517>

L. Cao, S. Krönke, O. Vendrell Romagosa, and P. Schmelcher.

The multi-layer multi-configuration time-dependent Hartree method for bosons: Theory, implementation, and applications.

The journal of chemical physics, 139(13):134103, and DESY-2013-00930. <http://dx.doi.org/10.1063/1.4821350>

F. Capotondi et al.

Invited Article: Coherent imaging using seeded free-electron laser pulses with variable polarization: First results and research opportunities.

Review of scientific instruments, 84(5):051301 - 11, and DESY-2013-00087. <http://dx.doi.org/10.1063/1.4807157>

C. Caspers et al.

Ultrathin magnetic oxide EuO films on Si(001) using SiO_x passivation - Controlled by hard x-ray photoemission spectroscopy.

Journal of applied physics, 113:17C505, and PHPPUBDB-25633. <http://dx.doi.org/10.1063/1.4795010>

C. Caspers, A. Hloskovsky, W. Drube, C. M. Schneider, and M. Müller.

Heteroepitaxy and ferromagnetism of EuO/MgO (001): A route towards combined spin- and symmetry-filter tunneling.

Physical review / B, 88(24):245302, and DESY-2013-01355.
<http://dx.doi.org/10.1103/PhysRevB.88.245302>

R. Castaninha et al.

Bringing Dicynodonts Back to Life: Paleobiology and Anatomy of a New Emydopoid Genus from the Upper Permian of Mozambique.

PLoS one, 8(12):e80974, and DESY-2013-01327.
<http://dx.doi.org/10.1371/journal.pone.0080974>

A. Chaika et al.

Continuous wafer-scale graphene on cubic-SiC(001).

Nano research, 6(8):562 - 570, and DESY-2014-01970.
<http://dx.doi.org/10.1007/s12274-013-0331-9>

G. L. Chakkalakal, C. Abetz, U. Vainio, U. A. Handge, and V. Abetz.

Influence of rheology and morphology on foaming of PS-b-PMMA diblock copolymers and their composites with modified silica nanoparticles.

Polymer, 54(15):3860 - 3873, and DESY-2013-00869.
<http://dx.doi.org/10.1016/j.polymer.2013.05.025>

Y.-P. Chang et al.

Specific Chemical Reactivities of Spatially Separated 3-Aminophenol Conformers with Cold Ca^+ Ions.

Science, 342(6154):98 - 101, and DESY-2013-01307, arXiv:1308.6538.
<http://dx.doi.org/10.1126/science.1242271>

H. Chapman, J. Kirz, and M. Stampanoni.

X-ray Microscopy and Microtomography.

Synchrotron radiation news, 26(2):2 - 3, and DESY-2013-01299.

<http://dx.doi.org/10.1080/08940886.2013.771061>

Checinska, W. Morgenroth, C. Paulmann, D. Jayatilaka, and B. Dittrich.

A comparison of electron density from Hirshfeld-atomrefinement, X-ray wavefunction refinement and multipole refinement on three urea derivatives.

CrystEngComm, 15:2084-2090, and DESY-2014-01052.
<http://dx.doi.org/10.1039/C2CE26964C>

H.-W. Chen et al.

3 GHz, Yb-fiber laser-based, few-cycle ultrafast source at the Ti:sapphire laser wavelength.

Optics letters, 38(22):4927 -, and DESY-2013-01436.
<http://dx.doi.org/10.1364/OL.38.004927>

M. Chiarpotto et al.

Mechanism of aluminium bio-mineralization in the apoferritin cavity.

Applied physics letters, 103(8):083701, and DESY-2014-02198. <http://dx.doi.org/10.1063/1.4818749>

G. Conti et al.

Band Offsets in Complex-Oxide Thin Films and Heterostructures of $SrTiO_3/LaNiO_3$ and $SrTiO_3/GdTlO_3$ by Soft and Hard X-ray Photoelectron Spectroscopy.

Journal of applied physics, 113:143704, and PHPPUBDB-25631. <http://dx.doi.org/10.1063/1.4795612>

M. Daniel et al.

Influence of the substrate thermal expansion coefficient on the morphology and elastic stress of $CoSb_3$ thin films.

Physica status solidi / A, 210:140-146, and PHPPUBDB-25170.

<http://dx.doi.org/10.1002/pssa.201228388>

H. Demirci et al.

Serial femtosecond X-ray diffraction of 30S ribosomal subunit microcrystals in liquid suspension at ambient temperature using an X-ray free-electron laser.

Acta crystallographica / F, 69(9):1066 - 1069, and DESY-2013-00733.
<http://dx.doi.org/10.1107/S174430911302099X>

M. A. Denecke et al.

XANES characterization of $UO_2/Mo(Pd)$ thin films as models for ϵ -particles in spent nuclear fuel.

Journal of physics / Conference Series, 430:012113, and PHPPUBDB-22106.

<http://dx.doi.org/10.1088/1742-6596/430/1/012113>

- D. Denisov, M. T. Dang, B. Struth, G. Wegdam, and P. Schall.
Resolving structural modifications of colloidal glasses by combining x-ray scattering and rheology.
Scientific reports, 3:1631, and PHPPUBDB-26203.
<http://dx.doi.org/10.1038/srep01631>
- K. Dholakia et al.
Quasi-Bessel hollow beam as optical guide for micro-particles.
Proceedings of SPIE, 8810:11, and DESY-2014-02312.
<http://dx.doi.org/10.1117/12.2026654>
- G. Dixit and R. Santra.
Role of electron-electron interference in ultrafast time-resolved imaging of electronic wavepackets.
The journal of chemical physics, 138:134311, and PHPPUBDB-26145. <http://dx.doi.org/10.1063/1.4798321>
- G. Dixit, J. M. Slowik, and R. Santra.
Proposed imaging of the ultrafast electronic motion in samples using X-ray phase contrast.
Physical review letters, 110:137403, and PHPPUBDB-26109.
<http://dx.doi.org/10.1103/PhysRevLett.110.137403>
- G. Dixit, H. S. Chakraborty, and M. E.-A. Madjet.
Time Delay in the Recoiling Valence Photoemission of Ar Endohedrally Confined in C_{60} .
Physical review letters, 111(20):203003, and DESY-2013-01130.
<http://dx.doi.org/10.1103/PhysRevLett.111.203003>
- C. Domesle et al.
Photoionization and fragmentation of H_3O^+ under XUV irradiation.
Physical review / A, 88(4):043405, and DESY-2014-01301.
<http://dx.doi.org/10.1103/PhysRevA.88.043405>
- J. Donges, M. Montagnat, P. Bastie, and F. Grennerat.
3D diffraction imaging and orientation mapping in deformed ice crystals.
Nuclear instruments & methods in physics research / B, 300:6–10, and PHPPUBDB-26095.
<http://dx.doi.org/10.1016/j.nimb.2013.01.042>
- W. Drube.
Preface to "Recent advances in Hard X-ray Photoelectron Spectroscopy (HAXPES)".
Journal of electron spectroscopy and related phenomena, 190(Part B):125 – 126, and DESY-2013-01326.
<http://dx.doi.org/10.1016/j.elspec.2013.11.006>
- W. Drube et al.
Pronounced effects of interchannel coupling in high-energy photoionization.
Journal of physics / B, 46(24):245006, and DESY-2013-01311.
<http://dx.doi.org/10.1088/0953-4075/46/24/245006>
- T. Ducic et al.
X-ray fluorescence analysis of iron and manganese distribution in primary dopaminergic neurons.
Journal of neurochemistry, 124:250, and PHPPUBDB-23512.
<http://dx.doi.org/10.1111/jnc.12073>
- S. Duesterer et al.
Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields.
Journal of physics / B, 46(16):164026, and DESY-2014-00793.
<http://dx.doi.org/10.1088/0953-4075/46/16/164026>
- M. J. Duffy et al.
Fragmentation of Neutral Amino Acids and Small Peptides by Intense, Femtosecond Laser Pulses.
Journal of the American Society for Mass Spectrometry, 24(9):1366 – 1375, and DESY-2014-02089.
<http://dx.doi.org/10.1007/s13361-013-0653-6>
- N. N. Dutta, S. Roy, G. Dixit, and S. Majumder.
Ab initio calculations of transition amplitudes and hyperfine A and B constants of Ga III.
Physical review / A, 87:012501, and PHPPUBDB-26116.
<http://dx.doi.org/10.1103/PhysRevA.87.012501>
- T. Dučić et al.
Enhancement in statistical and image analysis for in situ SXRF studies of elemental distribution and co-localization, using *Dioscorea albanica*.
Journal of synchrotron radiation, 20(2):339 – 346, and DESY-2014-02227.
<http://dx.doi.org/10.1107/S0909049512050170>
- E. Dynowska et al.
Structural characterization of the epitaxially grown core-shell ZnTe/ZnMgTe nanowires.
Radiation physics and chemistry, 93:111 – 116, and DESY-2014-01860.
<http://dx.doi.org/10.1016/j.radphyschem.2013.05.036>
- R. Döhrmann et al.
A new highly automated sputter equipment for in situ investigation of deposition processes with synchrotron radiation.
Review of scientific instruments, 84:043901, and PHPPUBDB-26170. <http://dx.doi.org/10.1063/1.4798544>
- N. Eckerskorn et al.
Hollow Bessel-like beam as an optical guide for a stream of microscopic particles.
Optics express, 21(25):30492, and DESY-2013-01319.
<http://dx.doi.org/10.1364/OE.21.030492>
- B. Eckhardt et al.
Micelle-Templated Oxides and Carbonates of Zinc, Cobalt, and Aluminum and a Generalized Strategy for Their Synthesis.
Chemistry of materials, 25(14):2749 – 2758, and DESY-2013-00870. <http://dx.doi.org/10.1021/cm400535d>
- H. J. Elmers et al.
Exchange coupling in the correlated electronic states of amorphous GdFe films.
Physical review / B, 88(17):174407, and DESY-2013-01352.
<http://dx.doi.org/10.1103/PhysRevB.88.174407>
- A. Elsen et al.
In situ x-ray studies of adlayer-induced crystal nucleation at the liquid-liquid interface.
Proceedings of the National Academy of Sciences of the United States of America, 110(17):6663–6668, and DESY-2013-00727.
<http://dx.doi.org/10.1073/pnas.1301800110>
- B. Erk et al.
Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging.
Journal of physics / B, 46(16):164031, and DESY-2014-02078.
<http://dx.doi.org/10.1088/0953-4075/46/16/164031>

- B. Erk et al.
Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules.
Physical review letters, 110(5):053003, and DESY-2014-02082.
<http://dx.doi.org/10.1103/PhysRevLett.110.053003>
- M. Fabian et al.
Reverse Monte Carlo modeling of the neutron and X-ray diffraction data for new chalcogenide Ge-Sb-S(Se)-Te glasses.
Journal of physics and chemistry of solids, 74(10):1355–1362, and DESY-2014-02056.
<http://dx.doi.org/10.1016/j.jpcs.2013.05.011>
- G. Falkenberg et al.
Moonlight receptor of the 1-h-midge *Clunio marinus* studied by micro-XRF.
Journal of physics / Conference Series, 463:012016, and PHPPUBDB-22344.
<http://dx.doi.org/10.1088/1742-6596/463/1/012016>
- I. Faus et al.
Nuclear inelastic scattering studies on a dinuclear iron(II) spin crossover complex.
Hyperfine interactions, Dordrecht [u.a.], 2013. 32nd International Conference on the Applications of the Mössbauer Effect (ICAME 2013), Opatija (Croatia), Springer Science + Business Media B.V.
<http://dx.doi.org/10.1007/s10751-013-0942-2>
- J. Feldhaus et al.
AMO science at the FLASH and European XFEL free-electron laser facilities.
Journal of physics / B, 46(16):164002 –, and DESY-2014-01932.
<http://dx.doi.org/10.1088/0953-4075/46/16/164002>
- M. Feyand et al.
High-throughput microwave-assisted discovery of new metal phosphonates.
Dalton transactions, 42(24):8761 –8770, and DESY-2014-01492. <http://dx.doi.org/10.1039/c3dt50413a>
- S. Francoal, J. Stremper, D. Reuther, D. K. Shukla, and A. Skaugen.
Double phase-retarder set-up at beamline P09 at PETRA III.
Journal of physics / Conference Series, 425:132010, and PHPPUBDB-23756.
<http://dx.doi.org/10.1088/1742-6596/425/13/132010>
- D. Franz et al.
Atomic Structure and Crystalline Order of Graphene-Supported Ir Nanoparticle Lattices.
Physical review letters, 110:065503, and PHPPUBDB-26577.
<http://dx.doi.org/10.1103/PhysRevLett.110.065503>
- A. Friedrich et al.
In situ study of the high pressure high-temperature stability field of TaN and of the compressibilities of -TaN and TaON.
High pressure research, 33(3):633–641, and DESY-2013-01139.
<http://dx.doi.org/10.1080/08957959.2013.813943>
- X. Fu, K.-H. Hong, L.-J. Chen, and F. Kaertner.
Performance scaling of high-power picosecond cryogenically cooled rod-type Yb:YAG multipass amplification.
Journal of the Optical Society of America / B, 30(11):2798 – 2809, and DESY-2013-01437.
<http://dx.doi.org/10.1364/JOSAB.30.002798>
- H. Fukuzawa et al.
Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses.
Physical review letters, 110(17):173005, and DESY-2014-01081.
<http://dx.doi.org/10.1103/PhysRevLett.110.173005>
- D. Gatta et al.
On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science.
Physics and chemistry of minerals, 40:145–156, and PHPPUBDB-25618.
<http://dx.doi.org/10.1007/s00269-012-0554-4>
- G. D. Gatta, P. Lotti, M. Merlini, H.-P. Liermann, and M. Fisch.
High-Pressure Behavior and Phase Stability of Al₅ BO₉, a Mullite-Type Ceramic Material.
Journal of the American Ceramic Society, 96(8):2583 – 2592, and DESY-2013-00748.
<http://dx.doi.org/10.1111/jace.12411>
- J. Gaudin et al.
Photon energy dependence of graphitization threshold for diamond irradiated with an intense XUV FEL pulse.
Physical review / B, 88(6):060101, and DESY-2013-00580.
<http://dx.doi.org/10.1103/PhysRevB.88.060101>
- J. Gegner et al.
In situ observation of the phase selection from the undercooled melt in Cu–Zr.
Journal of alloys and compounds, 576:232 – 235, and DESY-2014-02034.
<http://dx.doi.org/10.1016/j.jallcom.2013.04.035>
- N. Gerasimova et al.
In situ focus characterization by ablation technique to enable optics alignment at an XUV FEL source.
Review of scientific instruments, 84(6):065104 –, and DESY-2013-00138. <http://dx.doi.org/10.1063/1.4807896>
- A. Gonnelli et al.
Small-Angle X-ray Scattering Study of Self-Assembling Lipophilic Guanines in Organic Solvents: G-Quadruplex Formation and Cation Effects in Cyclohexane.
The journal of physical chemistry / B, 117(4):1095 – 1103, and DESY-2014-02189.
<http://dx.doi.org/10.1021/jp3121929>
- S. A. Gorbunov, N. Medvedev, P. N. Terekhin, and A. E. Volkov.
The microscopic model of material excitation in swift heavy ion tracks.
Physica status solidi / C, 10(4):697 – 700, and DESY-2013-00466.
<http://dx.doi.org/10.1002/pssc.201200875>
- S. A. Gorbunov, P. N. Terekhin, N. Medvedev, and A. E. Volkov.
Combined model of the material excitation and relaxation in swift heavy ion tracks.
Nuclear instruments & methods in physics research / B, 315:173 – 178, and DESY-2014-01965.
<http://dx.doi.org/10.1016/j.nimb.2013.04.082>

C. E. Graves et al.

Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo.

Nature materials, 12(4):293 – 298, and DESY-2014-01819.
<http://dx.doi.org/10.1038/nmat3597>

D. Greiffenberg et al.

Optimization of the noise performance of the AGIPD prototype chips.

Journal of Instrumentation, 8(10):P10022 – P10022, and DESY-2014-01951.
<http://dx.doi.org/10.1088/1748-0221/8/10/P10022>

J.-C. Grivel et al.

Thermal decomposition of lanthanum(III) butyrate in argon atmosphere.

Thermochimica acta, 566:112 – 117, and DESY-2014-01869.
<http://dx.doi.org/10.1016/j.tca.2013.05.016>

M. Gruber et al.

Correlating Structure and Morphology to Device Performance of Molecular Organic Donor-Acceptor Photovoltaic Cells Based on Diindenoperylene (DIP) and C 60.

Advanced energy materials, 3(8):1075 – 1083, and DESY-2014-01490.
<http://dx.doi.org/10.1002/aenm.201201012>

R. Guichard et al.

Multiple ionization of neon by soft x-rays at ultrahigh intensity.

Journal of physics / B, 46:164025, and DESY-2014-01971.
<http://dx.doi.org/10.1088/0953-4075/46/16/164025>

S. Guo et al.

Evolution of Lateral Structures during the Functional Stack Build-up of P3HT:PCBM-Based Bulk Heterojunction Solar Cells.

ACS applied materials & interfaces, 5(17):8581 – 8590, and DESY-2014-01483. <http://dx.doi.org/10.1021/am402045p>

M. Gutmann et al.

Room temperature single-crystal diffuse scattering and ab initio lattice dynamics in CaTiSiO 5.

Journal of physics / Condensed matter, 25(31):315402 –, and DESY-2013-00320.
<http://dx.doi.org/10.1088/0953-8984/25/31/315402>

C. Gutt et al.

Endstation for ultrafast magnetic scattering experiments at the free-electron laser in Hamburg.

Review of scientific instruments, 84(1):013906 –, and DESY-2013-00108. <http://dx.doi.org/10.1063/1.4773543>

J. L. Hansen et al.

Mixed-field orientation of molecules without rotational symmetry.

The journal of chemical physics, 139(23):234313 –, and DESY-2014-01862. <http://dx.doi.org/10.1063/1.4848735>

K. Heeg et al.

Vacuum-Assisted Generation and Control of Atomic Coherences at X-Ray Energies.

Physical review letters, 111(7):073601, and DESY-2013-00800.
<http://dx.doi.org/10.1103/PhysRevLett.111.073601>

U. Hejral, A. Vlad, P. Nolte, and A. Stierle.

In Situ Oxidation Study of Pt Nanoparticles on MgO(001).

The journal of physical chemistry / C, 117(39):19955 – 19966, and DESY-2014-02003.
<http://dx.doi.org/10.1021/jp404698k>

M. Herklotz et al.

Advances in in situ powder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg.

Journal of applied crystallography, 46(4):1117 – 1127, and DESY-2013-00622.
<http://dx.doi.org/10.1107/S0021889813013551>

G. Herzog et al.

In Situ Grazing Incidence Small-Angle X-ray Scattering Investigation of Polystyrene Nanoparticle Spray Deposition onto Silicon.

Langmuir, 29(36):11260 – 11266, and DESY-2014-01867.
<http://dx.doi.org/10.1021/la402254q>

R. Hilke et al.

Block Copolymer Hollow Fiber Membranes with Catalytic Activity and pH-Response.

ACS applied materials & interfaces, 5(15):7001 – 7006, and DESY-2013-00871. <http://dx.doi.org/10.1021/am401163h>

A. H. Hill, T. Klimczuk, R. Springell, and H. Walker.

Measuring radioactive powder samples on the high-resolution powder diffraction beamline at the European Synchrotron Radiation Facility.

Journal of applied crystallography, 46(2):567 – 569, and DESY-2014-02059.
<http://dx.doi.org/10.1107/S0021889813003178>

B. Hoher et al.

Modeling of Oxidized PTH (oxPTH) and Non-oxidized PTH (n-oxPTH) Receptor Binding and Relationship of Oxidized to Non-Oxidized PTH in Children with Chronic Renal Failure, Adult Patients on Hemodialysis and Kidney Transplant Recipients.

Kidney & blood pressure research, 37(4-5):240 – 251, and DESY-2014-02081. <http://dx.doi.org/10.1159/000350149>

P. Holmqvist, V. Meester, F. Westermeier, and D. Kleshchanok.

Rotational diffusion in concentrated platelet systems measured with X-ray photon correlation spectroscopy.

The journal of chemical physics, 139(8):084905 –, and DESY-2014-02122.
<http://dx.doi.org/10.1088/1748-0221/8/06/P06007>

R. Hoppe et al.

High-resolution chemical imaging of gold nanoparticles using hard x-ray ptychography.

Applied physics letters, 102(20):203104 –, and DESY-2014-01929. <http://dx.doi.org/10.1063/1.4807020>

U. Hoppe, L. Delevoye, L. Montagne, M. von Zimmermann, and A. Hannon.

Structure of Nb₂O₅–NaPO₃ glasses by X-ray and neutron diffraction.

Physical chemistry, chemical physics, 15(22):8520–8528, and DESY-2014-01192. <http://dx.doi.org/10.1039/c2cp42772a>

- D. Horke, A. S. Chatterley, and J. R. R. Verlet.
Influence of the repulsive Coulomb barrier on photoelectron spectra and angular distributions in a resonantly excited dianion.
The journal of chemical physics, 139(8):084302, and DESY-2014-02239. <http://dx.doi.org/10.1063/1.4818597>
- N. Hrauda et al.
Closely spaced SiGe barns as stressor structures for strain-enhancement in silicon.
Applied physics letters, 102:032109, and PHPPUBDB-25036. <http://dx.doi.org/10.1063/1.4789507>
- N. Hrauda et al.
Strain relief and shape oscillations in site-controlled coherent SiGe islands.
Nanotechnology, 24(33):35707–35707, and DESY-2013-00866. <http://dx.doi.org/10.1088/0957-4484/24/33/35707>
- S.-W. Huang et al.
High conversion efficiency, high energy terahertz pulses by optical rectification in cryogenically cooled lithium niobate.
Optics letters, 38:796, and PHPPUBDB-25975. <http://dx.doi.org/10.1364/OL.38.000796>
- C. N. Hulme-Smith, I. Lonardelli, A. C. Dippel, and H. K. D. H. Bhadeshia.
Experimental evidence for non-cubic bainitic ferrite.
Scripta materialia, 69(5):409 – 412, and DESY-2013-00536. <http://dx.doi.org/10.1016/j.scriptamat.2013.05.035>
- M. Hücker et al.
Enhanced charge stripe order of superconducting $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ in a magnetic field.
Physical review / B, 87:14501, and PHPPUBDB-23757. <http://dx.doi.org/10.1103/PhysRevB.87.014501>
- R. Jain et al.
X-ray scattering experiments with high-flux X-ray source coupled rapid mixing microchannel device and their potential for high-flux neutron scattering investigations.
The European physical journal / E, 36(9):109, and DESY-2014-02088. <http://dx.doi.org/10.1140/epje/i2013-13109-9>
- Y. H. Jiang et al.
Ultrafast dynamics in acetylene clocked in a femtosecond XUV stopwatch.
Journal of physics / B, 46(16):164027 –, and DESY-2014-02113. <http://dx.doi.org/10.1088/0953-4075/46/16/164027>
- L. C. Johansson et al.
Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography.
Nature Communications, 4:2911, and DESY-2014-01814. <http://dx.doi.org/10.1038/ncomms3911>
- P. Jovari et al.
Short range order and stability of amorphous $\text{Ge}_x\text{Te}_{100-x}$ alloys.
Journal of physics / Condensed matter, 25:195401, and PHPPUBDB-26411. <http://dx.doi.org/10.1088/0953-8984/25/19/195401>
- E. A. Juarez-Arellano et al.
In situ study of the formation of rhenium borides from the elements at high-(p, T) conditions: Extreme incompressibility of Re_7B_3 and formation of new phases.
Solid state sciences, 25:85 – 92, and DESY-2014-01873. <http://dx.doi.org/10.1016/j.solidstatesciences.2013.07.020>
- L. Juha et al.
Non-thermal phase transitions in semiconductors under femtosecond XUV irradiation.
Proceedings of SPIE, 8777:877709, and DESY-2013-00464. <http://dx.doi.org/10.1117/12.2019123>
- L. Juha et al.
Electron kinetics in liquid water excited by a femtosecond VUV laser pulse.
Proceedings of SPIE, 8777:87770S, and DESY-2013-00465. <http://dx.doi.org/10.1117/12.2020451>
- Z. Jurek and G. Faigel.
Orienting single-molecule diffraction patterns from XFELs using heavy-metal explosion fragments.
epl, 101(1):16007 –, and DESY-2014-01962. <http://dx.doi.org/10.1209/0295-5075/101/16007>
- R. Kabir et al.
Deformation and orientation behavior of polystyrene-b-polybutadiene-b-poly(methyl methacrylate) triblock terpolymers: Influence of polybutadiene microstructures and the molar masses.
Polymer, 54(2):673 – 684, and DESY-2014-01219. <http://dx.doi.org/10.1016/j.polymer.2012.11.075>
- A. Karamatskou, S. Pabst, and R. Santra.
Adiabaticity and diabaticity in strong-field ionization.
Physical review / A, 87:043422, and PHPPUBDB-26549. <http://dx.doi.org/10.1103/PhysRevA.87.043422>
- P. D. Keathley et al.
Strong-field photoemission from silicon field emitter arrays.
Annalen der Physik, 525(1-2):144 – 150, and DESY-2014-00383. <http://dx.doi.org/10.1002/andp.201200189>
- B. Keitel et al.
Hartmann wavefront measurements at FLASH.
Proceedings of SPIE, volume 8778, pages 877814–1–877814–7, Bellingham, Wash., 04/17/2013 – 04/18/2013 2013. Advances in X-ray Free-Electron Lasers II: Instrumentation, Prague(Czech Republic), SPIE. <http://dx.doi.org/10.1117/12.2020850>
- O. Khatim et al.
Amorphous-anatase phase transition in single immobilised TiO_2 nanoparticles.
Chemical physics letters, 558:53–56, and PHPPUBDB-26173. <http://dx.doi.org/10.1016/j.cplett.2012.12.019>
- S. Kim et al.
Drying of a Charge-Stabilized Colloidal Suspension in Situ Monitored by Vertical Small-Angle X-ray Scattering.
Langmuir, 29(32):10059 – 10065, and DESY-2014-01441. <http://dx.doi.org/10.1021/la401897n>

L. F. Kiss et al.

Pressure dependence of magnetic properties in Fe–Mn–B amorphous alloys: evidence for inhomogeneous ferromagnetism.

Journal of physics / Condensed matter, 25(34):346002 –, and DESY-2013-00740.

<http://dx.doi.org/10.1088/0953-8984/25/34/346002>

R. Klanner, E. Fretwurst, I. Pintilie, J. Schwandt, and J. Zhang.

Study of high-dose X-ray radiation damage of silicon sensors.

Nuclear instruments & methods in physics research / A, 732:117 – 121, and DESY-2014-01975.

<http://dx.doi.org/10.1016/j.nima.2013.05.131>

M. Knaapila et al.

Structural study of helical polyfluorene under high quasihydrostatic pressure.

Physical review / E, 87:022602, and PHPPUBDB-26076.

<http://dx.doi.org/10.1103/PhysRevE.87.022602>

M. Knaapila et al.

Measuring Structural Inhomogeneity of Conjugated Polymer at High Pressures up to 30 GPa.

Macromolecules, 46(20):8284 – 8288, and DESY-2013-01138.

<http://dx.doi.org/10.1021/ma401661t>

A. Koch et al.

Performance of an LPD prototype detector at MHz frame rates under Synchrotron and FEL radiation.

Journal of Instrumentation, volume 8, page C11001, London, 06/23/2013 – 06/27/2013 2013. 15th International Workshop on Radiation Imaging Detectors, Paris(France), Inst. of Physics.

<http://dx.doi.org/10.1088/1748-0221/8/11/C11001>

V. G. Kohn, O. Y. Gorobtsov, and I. A. Vartanyants.

Spectrometer for hard X-ray free-electron laser based on diffraction focusing.

Journal of synchrotron radiation, 20(2):258 – 265, and DESY-2014-01735.

<http://dx.doi.org/10.1107/S0909049513000903>

O. Kornilov et al.

Coulomb explosion of diatomic molecules in intense XUV fields mapped by partial covariance.

Journal of physics / B, 46(16):164028 –, and DESY-2014-02012.

<http://dx.doi.org/10.1088/0953-4075/46/16/164028>

J. Kowalska et al.

Effect of AVE 0991 angiotensin-(1–7) receptor agonist treatment on elemental and biomolecular content and distribution in atherosclerotic plaques of apoE-knockout mice.

Radiation physics and chemistry, 93:142–149, and DESY-2013-00960.

<http://dx.doi.org/10.1016/j.radphyschem.2013.03.048>

D. P. Kozlenko et al.

Effect of high pressure on the crystal structure, magnetic, and vibrational properties of multiferroic $RbFe(MoO_4)_2$.

Physical review / B, 87:014112, and PHPPUBDB-25557.

<http://dx.doi.org/10.1103/PhysRevB.87.014112>

C. Krywka et al.

Nanodiffraction at MINAXS (P03) beamline of PETRA III.

Journal of physics / Conference Series, volume 425, page 4, Bristol, 2012-07-09 – 2012-07-13 2013. 11th International Conference on Synchrotron Radiation Instrumentation, Lyon(France), IOP Publ.

<http://dx.doi.org/10.1088/1742-6596/425/7/072021>

M. Kuhlmann and E. Plönjes.

FLASH2 photon diagnostics and beamline concepts.

In *Proc. SPIE 8778, Advances in X-ray Free-Electron Lasers II: Instrumentation, Proceedings of SPIE*, volume 8778, Bellingham, Wash., 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2021749>

V. Kumar et al.

Structural, magnetic and X-ray absorption studies of

$NdCo_{1-x}Ni_xO_3$ ($0 \leq x \leq 0.5$).

Journal of applied physics, 113:043918, and

PHPPUBDB-25579. <http://dx.doi.org/10.1063/1.4788801>

V. Kumar et al.

Electronic structure and electrical transport properties of

$LaCo_{1-x}Ni_xO_3$ ($0 \leq x \leq 0.5$).

Journal of applied physics, 114(7):073704 –, and

DESY-2014-02042. <http://dx.doi.org/10.1063/1.4818448>

V. Kumar, R. Kumar, D. K. Shukla, and R. Kumar.

Disorder controlled electrical transport properties of

$NdCo_{1-x}Ni_xO_3$.

Journal of alloys and compounds, 574:316 – 319, and DESY-2014-02043.

<http://dx.doi.org/10.1016/j.jallcom.2013.05.075>

J. Kuntsche, A. Herre, A. Fahr, S. d. S. Funari, and P. Garidel.

Comparative SAXS and DSC study on stratum corneum structural organization in an epidermal cell culture model (ROC): Impact of cultivation time.

European journal of pharmaceutical sciences, 50(5):577 – 585, and DESY-2014-02183.

<http://dx.doi.org/10.1016/j.ejps.2013.06.003>

R. Kurta, Y. Chesnokov, E. Weckert, and I. Vartanyants.

Cross-correlation analysis of x-ray scattering from oxygen clusters.

Journal of physics / Conference Series, 463(1):012046, and DESY-2014-01724.

<http://dx.doi.org/10.1088/1742-6596/463/1/012046>

R. Kurta, R. Drönyak, M. Altarelli, E. Weckert, and I. Vartanyants.

Solution of the phase problem for coherent scattering from a disordered system of identical particles.

New journal of physics, 15(1):013059 –, and DESY-2014-01736.

<http://dx.doi.org/10.1088/1367-2630/15/1/013059>

R. Kurta et al.

X-ray cross-correlation analysis of liquid crystal membranes in the vicinity of the hexatic-smectic phase transition.

Physical review / E, 88(4):044501, and DESY-2014-01725.

<http://dx.doi.org/10.1103/PhysRevE.88.044501>

S. Kutterolf et al.

Combined bromine and chlorine release from large explosive volcanic eruptions: A threat to stratospheric ozone?.

Geology, 41:707, and PHPPUBDB-26522.

<http://dx.doi.org/10.1130/G34044.1>

- W. Laasch and T. Tschentscher.
Joint European XFEL and DESY Photon Science Users' Meeting 2013.
Synchrotron radiation news, 26(3):45–48, and PHPPUBDB-26592.
<http://dx.doi.org/10.1080/08940886.2013.791220>
- C.-J. Lai et al.
Wavelengths Scaling of high harmonic generation close to the multiphoton ionization regime.
Physical review letters, 111(7):073901, and DESY-2013-00759.
<http://dx.doi.org/10.1103/PhysRevLett.111.073901>
- H. H. Langner, L. Bocklage, T. Matsuyama, and G. Meier.
Inductive detection of magnetic vortex gyration.
Physical review / B, 87:064420, and PHPPUBDB-25947.
<http://dx.doi.org/10.1103/PhysRevB.87.064420>
- S. Lee et al.
Single shot speckle and coherence analysis of the hard X-ray free electron laser LCLS.
Optics express, 21(21):24647 –, and DESY-2014-01801.
<http://dx.doi.org/10.1364/OE.21.024647>
- C. J. Li et al.
Enhanced strength and transformation-induced plasticity in rapidly solidified Zr–Co–(Al) alloys.
Scripta materialia, 68(11):897 – 900, and DESY-2014-02038.
<http://dx.doi.org/10.1016/j.scriptamat.2013.02.029>
- W. Li et al.
Effect of doping on the radiation response of conductive Nb–SrTiO₃.
Nuclear instruments & methods in physics research / B, 302:40 – 47, and DESY-2014-01964.
<http://dx.doi.org/10.1016/j.nimb.2013.03.010>
- Z. Li, M. Madjet, O. Vendrell, and R. Santra.
Correlated Dynamics of the Motion of Proton-Hole Wave Packets in a Photoionized Water Cluster.
Physical review letters, 110:038302, and PHPPUBDB-24670.
<http://dx.doi.org/10.1103/PhysRevLett.110.038302>
- J. Lim, H.-W. Chen, G. Chang, and F. Kaertner.
Frequency comb based on a narrowband Yb-fiber oscillator: pre-chirp management for self-referenced carrier envelope offset frequency stabilization.
Optics express, 21:4531, and PHPPUBDB-25912.
<http://dx.doi.org/10.1364/OE.21.004531>
- W. Liu et al.
Serial Femtosecond Crystallography of G Protein-Coupled Receptors.
Science, 342(6165):1521 – 1524, and DESY-2014-01260.
<http://dx.doi.org/10.1126/science.1244142>
- N. D. Loh et al.
Sensing the wavefront of x-ray free-electron lasers using aerosol spheres.
Optics express, 21(10):12385, and DESY-2013-01298.
<http://dx.doi.org/10.1364/OE.21.012385>
- C. Lupulescu et al.
iDEEAA: A novel, versatile apparatus for electron spectroscopy.
Journal of electron spectroscopy and related phenomena, 191:104 – 111, and DESY-2014-01902.
<http://dx.doi.org/10.1016/j.elspec.2013.09.002>
- M. E. A. Madjet, Z. Li, and O. Vendrell.
Non-Born-Oppenheimer dynamics of the photoionized Zundel cation: A quantum wavepacket and surface-hopping study.
The journal of chemical physics, 138:094313, and PHPPUBDB-25986. <http://dx.doi.org/10.1063/1.4793274>
- M. E. A. Madjet, Z. Li, and O. Vendrell Romagosa.
Ultrafast hydrogen migration in acetylene cation driven by non-adiabatic effects.
The journal of chemical physics, 138:094311, and PHPPUBDB-25987. <http://dx.doi.org/10.1063/1.4793215>
- D. D. Mai et al.
Single pulse coherence measurements in the water window at the free-electron laser FLASH.
Optics express, 21(11):13005 –, and DESY-2014-01732.
<http://dx.doi.org/10.1364/OE.21.013005>
- V. Makhov et al.
Intrinsic and impurity luminescence of rare earth ions doped KYF₄ nanophosphors.
Radiation measurements, 56:393 – 396, and DESY-2013-00948.
<http://dx.doi.org/10.1016/j.radmeas.2013.01.070>
- T. Maltezopoulos et al.
A high-harmonic generation source for seeding a free-electron laser at 38 nm.
Applied physics / B, 1:1–10, and DESY-2013-01107.
<http://dx.doi.org/10.1007/s00340-013-5571-6>
- M. Malvestuto et al.
Nature of the apical and planar oxygen bonds in the Sr_{n+1}Ru_nO_{3n+1} family (n=1,2,3).
Physical review / B, 88(19):195143, and DESY-2014-02080.
<http://dx.doi.org/10.1103/PhysRevB.88.195143>
- M. Marciszko et al.
Multireflection grazing incidence diffraction used for stress measurements in surface layers.
Thin solid films, 530:81–84, and DESY-2013-00743.
<http://dx.doi.org/10.1016/j.tsf.2012.05.042>
- D. S. Marques et al.
Self-assembly in casting solutions of block copolymer membranes.
Soft matter, 9(23):5557, and DESY-2013-00728.
<http://dx.doi.org/10.1039/c3sm27475f>
- A. Marras et al.
Front end electronics for European XFEL sensor: The AGIPD project.
Nuclear instruments & methods in physics research / A, 731:79 – 82, and DESY-2014-01950.
<http://dx.doi.org/10.1016/j.nima.2013.03.053>
- A. V. Martin et al.
The extraction of single-particle diffraction patterns from a multiple-particle diffraction pattern.
Optics express, 21(13):15102, and DESY-2013-01296.
<http://dx.doi.org/10.1364/OE.21.015102>

J. Marx et al.

Simultaneous characterization of protein coated iron oxide nanoparticles with nuclear inelastic scattering and atomic force microscopy.

Hyperfine interactions, Dordrecht [u.a.], 2013. 32nd International Conference on the Applications of the Mössbauer Effect (ICAME 2013), Opatija (Croatia), Springer Science + Business Media B.V.

<http://dx.doi.org/10.1007/s10751-013-0933-3>

G. Matrajt, G. Flynn, D. Brownlee, D. Joswiak, and S. Bajt. **THE ORIGIN OF THE 3.4 μm FEATURE IN WILD 2 COMETARY PARTICLES AND IN ULTRACARBONACEOUS INTERPLANETARY DUST PARTICLES.**

The astrophysical journal, 765(2):145 –, and DESY-2014-01776.

<http://dx.doi.org/10.1088/0004-637X/765/2/145>

N. Mattern, J. Bednarcik, M. Stoica, and J. Eckert.

Temperature dependence of the short-range order of $\text{Cu}_{65}\text{Zr}_{35}$ metallic glass.

Intermetallics, 32:51 – 56, and DESY-2014-02036.

<http://dx.doi.org/10.1016/j.intermet.2012.08.024>

N. Mattern et al.

Experimental and thermodynamic assessment of the Gd–Ti system.

Calphad, 42:19 – 26, and DESY-2014-01669.

<http://dx.doi.org/10.1016/j.calphad.2013.06.007>

N. Mattern, J. Bednarcik, H.-P. Liermann, and J. Eckert.

Structural behaviour of $\text{Pd}_{40}\text{Cu}_{30}\text{Ni}_{10}\text{P}_{20}$ metallic glass under high pressure.

Intermetallics, 38:9 – 13, and DESY-2014-02039.

<http://dx.doi.org/10.1016/j.intermet.2013.02.019>

N. Medvedev, H. O. Jeschke, and B. Ziaja.

Nonthermal graphitization of diamond induced by a femtosecond x-ray laser pulse.

Physical review / B, 88(22):1–10, and DESY-2014-00448.

<http://dx.doi.org/10.1103/PhysRevB.88.224304>

N. Medvedev, H. O. Jeschke, and B. Ziaja.

Nonthermal phase transitions in semiconductors induced by a femtosecond extreme ultraviolet laser pulse.

New journal of chemistry, 15:015016, and PHPPUBDB-25478.

<http://dx.doi.org/10.1088/1367-2630/15/1/015016>

N. Medvedev, B. Ziaja-Motyka, M. Cammarata, M. Harmand, and S. Toleikis.

Electron Kinetics in Femtosecond X-Ray Irradiated SiO_2 .

Contributions to plasma physics, 53(4-5):347 – 354, and DESY-2013-00462.

<http://dx.doi.org/10.1002/ctpp.201200095>

A. Meents et al.

Development of an in-vacuum x-ray microscope with cryogenic sample cooling for beamline P11 at PETRA III.

Proceedings of SPIE, volume 8851, page 88510K, Bellingham, Wash., 2013. SPIE Optical Engineering + Applications, San Diego (United State), SPIE.

<http://dx.doi.org/10.1117/12.2027303>

A. Menushenkov et al.

Local crystal structure of TiNiCu shape memory alloys.

Journal of physics / Conference Series, 430(conference 1):012067, and DESY-2014-01475.

<http://dx.doi.org/10.1088/1742-6596/430/1/012067>

A. Menushenkov et al.

Features of the local structure of rare-earth dodecaborides RB_{12} (R = Ho, Er, Tm, Yb, Lu).

JETP letters, 98(3):165 – 169, and DESY-2014-01616.

<http://dx.doi.org/10.1134/S002136401316011X>

A. Menushenkov et al.

XAFS and XRD studies of local structure peculiarities in magnetic $\text{R}_2\text{Fe}_{17-x}\text{Mn}_x$ (R=Ce, Lu) intermetallics.

Journal of physics / Conference Series, 430(conference 1):012104, and DESY-2014-01474.

<http://dx.doi.org/10.1088/1742-6596/430/1/012104>

S. Merkel, H.-P. Liermann, L. Miyagi, and H.-R. Wenk.

In situ radial X-ray diffraction study of texture and stress during phase transformations in bcc-, fcc- and hcp-iron up to 36 GPa and 1000 K.

Acta materialia, 61(14):5144 – 5151, and DESY-2014-01884.

<http://dx.doi.org/10.1016/j.actamat.2013.04.068>

E. Metwalli et al.

Cobalt Nanoparticles Growth on a Block Copolymer Thin Film: A Time-Resolved GISAXS Study.

Langmuir, 29(21):6331 – 6340, and DESY-2014-01484.

<http://dx.doi.org/10.1021/la400741b>

T. Mey et al.

Measurement of wavefront and Wigner distribution function for optics alignment and full beam characterization of FELs.

Proceedings of SPIE, volume 8778, pages 87780H–1 – 87780H–8, Bellingham, Wash., 04/17/2013 – 04/18/2014

2013. Advances in X-ray Free-Electron Lasers II: Instrumentation, Prague (Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2016973>

H. E. Mgbemere, M. Hinterstein, and G. A. Schneider.

Investigation of the structure and electrical properties of $(\text{K}_x\text{Na}_{0.96-x}\text{Li}_{0.04})(\text{Nb}_{0.96-y}\text{Ta}_y\text{Sb}_{0.04})\text{O}_3$ piezoelectric ceramics modified with manganese.

Journal of the American Ceramic Society, 96:201–208, and PHPPUBDB-23922.

<http://dx.doi.org/10.1111/jace.12019>

L. J. Michot et al.

Coagulation of Na-Montmorillonite by Inorganic Cations at Neutral pH. A Combined Transmission X-ray Microscopy, Small Angle and Wide Angle X-ray Scattering Study.

Langmuir, 29(10):3500 – 3510, and DESY-2014-02188.

<http://dx.doi.org/10.1021/la400245n>

J. Mikosch et al.

Indirect Dynamics in a Highly Exoergic Substitution Reaction.

Journal of the American Chemical Society, 135(11):4250 – 4259, and DESY-2014-02087.

<http://dx.doi.org/10.1021/ja308042v>

M. Minnekaev et al.

Structural, ferroelectric, electronic and transport properties of BaTiO_3/Pt heterostructures grown on $\text{MgO}(001)$.

Microelectronic engineering, 109:227, and PHPPUBDB-26554.

<http://dx.doi.org/10.1016/j.mee.2013.03.077>

P. K. Mishra, O. Vendrell Romagosa, and R. Santra.

Ultrafast Energy Transfer to Liquid Water by Sub-Picosecond High-Intensity Terahertz Pulses: An AbInitio Molecular Dynamics Study.

Angewandte Chemie / International edition, 52(51):13685 – 13687, and DESY-2014-01949.

<http://dx.doi.org/10.1002/anie.201305991>

- S. Mishra, G. Wellenreuther, J. Mattusch, H.-J. Stärk, and H. Kuepper.
Speciation and Distribution of Arsenic in the Nonhyperaccumulator Macrophyte *Ceratophyllum demersum*.
Plant physiology, 163(3):1396–1408, and DESY-2014-01345.
<http://dx.doi.org/10.1104/pp.113.224303>
- R. Mitzner et al.
L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser.
The journal of physical chemistry letters, 4(21):3641 – 3647, and DESY-2014-02037.
<http://dx.doi.org/10.1021/jz401837f>
- A. Mollova, R. Androsch, D. Mileva, M. Gahleitner, and S. d. S. Funari.
Crystallization of isotactic polypropylene containing beta-phase nucleating agent at rapid cooling.
European polymer journal, 49(5):1057 – 1065, and DESY-2014-02186.
<http://dx.doi.org/10.1016/j.eurpolymj.2013.01.015>
- A. Mollova et al.
Crystallization of nanocomposites of an isotactic random butene-1/ethylene copolymer and layered double hydroxide.
Polymer bulletin, 70(11):3115 – 3128, and DESY-2014-02184.
<http://dx.doi.org/10.1007/s00289-013-1011-3>
- K. C. Mondal et al.
Formation of a 1,4-Diamino-2,3-disila-1,3-butadiene Derivative.
Journal of the American Chemical Society, 135(43):15990 – 15993, and DESY-2013-01007.
<http://dx.doi.org/10.1021/ja4072139>
- P. K. Mondal, N. N. Dutta, G. Dixit, and S. Majumder.
Effect of screening on spectroscopic properties of Li-like ions in a plasma environment.
Physical review / A, 87(6):062502, and DESY-2013-00459.
<http://dx.doi.org/10.1103/PhysRevA.87.062502>
- L. Monico et al.
Degradation Process of Lead Chromate in Paintings by Vincent van Gogh Studied by Means of Spectromicroscopic Methods. 3. Synthesis, Characterization, and Detection of Different Crystal Forms of the Chrome Yellow Pigment.
Analytical chemistry, 85:851–859, and PHPPUBDB-23926.
<http://dx.doi.org/10.1021/ac302158b>
- P. L. Mosbrucker et al.
Neutron and X-ray diffraction analysis of the effect of irradiation dose and temperature on microstructure of irradiated HT-9 steel.
Journal of nuclear materials, 443(1-3):522 – 530, and DESY-2014-00065.
<http://dx.doi.org/10.1016/j.jnucmat.2013.07.065>
- K. Motomura et al.
Sequential multiphoton multiple ionization of atomic argon and xenon irradiated by X-ray free-electron laser pulses from SACLA.
Journal of physics / B, 46(16):164024, and DESY-2013-00609.
<http://dx.doi.org/10.1088/0953-4075/46/16/164024>
- L. Mueller et al.
Breakdown of the X-Ray Resonant Magnetic Scattering Signal during Intense Pulses of Extreme Ultraviolet Free-Electron-Laser Radiation.
Physical review letters, 110(23):234801, and DESY-2013-00460.
<http://dx.doi.org/10.1103/PhysRevLett.110.234801>
- E. V. Murashova et al.
Synthesis, crystal structure and physical properties of $Ce_2Ru_2Ga_3$.
Intermetallics, 38:23–29, and PHPPUBDB-26209.
<http://dx.doi.org/10.1016/j.intermet.2013.02.002>
- D. Music et al.
Bonding and elastic properties of amorphous $AlYB_{14}$.
Solid state communications, 169:6 – 9, and DESY-2014-02035.
<http://dx.doi.org/10.1016/j.ssc.2013.06.022>
- L. Müller et al.
Ultrafast Dynamics of Magnetic Domain Structures Probed by Coherent Free-Electron Laser Light.
Synchrotron radiation news, 26(6):27 – 32, and DESY-2014-01095.
<http://dx.doi.org/10.1080/08940886.2013.850384>
- S. P. Nabanja et al.
Large-area broad band saturable Bragg reflectors using oxidized AlAs in the circular and inverted mesa geometries.
Journal of applied physics, 113:163102, and PHPPUBDB-26546. <http://dx.doi.org/10.1063/1.4802694>
- M. S. Nabavizadeh, H. Sepehrpour, R. Kia, and A. L. Rheigold.
Bis(diphenylphosphino)acetylene as bifunctional ligand incycloplatinated complexes: Synthesis, characterization, crystalstructures and mechanism of MeI oxidative addition.
Journal of organometallic chemistry, 745-746:148–157, and DESY-2014-02175.
<http://dx.doi.org/10.1016/j.jorganchem.2013.07.032>
- V. Nagirnyi et al.
Recombination luminescence in $Li_2B_4O_7$ doped with manganese and copper.
Radiation measurements, 56:192 – 195, and DESY-2013-00951.
<http://dx.doi.org/10.1016/j.radmeas.2013.02.005>
- R. Naji Aljawfi, F. Rahman, and D. K. Shukla.
Effect of the annealing temperature on the structural and magnetic properties of ZnO nanoparticles.
Materials letters, 99:18 – 20, and DESY-2014-02041.
<http://dx.doi.org/10.1016/j.matlet.2013.02.064>
- M. Niedermeier et al.
Low-Temperature Sol-Gel Synthesis of Nanostructured Polymer/Titania Hybrid Films based on Custom-Made Poly(3-Alkoxy Thiophene).
ChemPhysChem, 14(3):597 – 602, and DESY-2014-01487.
<http://dx.doi.org/10.1002/cphc.201200808>
- F. Niekiel, M. Ackermann, P. Guerrier, A. Rothkirch, and N. Stock.
Aluminum-1,4-cyclohexanedicarboxylates: High-Throughput and Temperature-Dependent in Situ EDXRD Studies.
Inorganic chemistry, 52(15):8699 – 8705, and DESY-2014-01462. <http://dx.doi.org/10.1021/ic400825b>

- H. Noei et al.
Coverage-Induced Hydrogen Transfer on ZnO Surfaces: From Ideal to Real Systems.
Angewandte Chemie / International edition, 52(7):1977 – 1981, and DESY-2014-01890.
<http://dx.doi.org/10.1002/anie.201207566>
- H. Noei et al.
CO Adsorption on a Mixed-Valence Ruthenium Metal–Organic Framework Studied by UHV-FTIR Spectroscopy and DFT Calculations.
The journal of physical chemistry / C, 117(11):5658 – 5666, and DESY-2014-01893.
<http://dx.doi.org/10.1021/jp3056366>
- P. Novak et al.
On the formation of intermetallics in Fe-Al system - An in situ XRD study.
Intermetallics, 32:127–136, and PHPPUBDB-23660.
<http://dx.doi.org/10.1016/j.intermet.2012.08.020>
- Z. Németh et al.
Microscopic origin of the magnetoelectronic phase separation in Sr-doped LaCoO_3 .
Physical review / B, 88(3):035125, and DESY-2014-01868.
<http://dx.doi.org/10.1103/PhysRevB.88.035125>
- M. Oja et al.
Intrinsic and extrinsic luminescence of nanosize transition alumina powders.
Radiation measurements, 56:411 – 414, and DESY-2013-00950.
<http://dx.doi.org/10.1016/j.radmeas.2013.01.067>
- O. Osmani, N. Medvedev, J. I. Juaristi, M. Schleberger, and B. Rethfeld.
Transient metal-like electrical conductivity in swift heavy ion irradiated insulators.
Nuclear instruments & methods in physics research / B, 317:72 – 76, and DESY-2014-01957.
<http://dx.doi.org/10.1016/j.nimb.2012.12.092>
- R. Otto et al.
Exit Channel Dynamics in a Micro-Hydrated S N 2 Reaction of the Hydroxyl Anion.
The journal of physical chemistry / A, 117(34):8139 – 8144, and DESY-2014-02083.
<http://dx.doi.org/10.1021/jp401347p>
- S. V. Ovsyannikov et al.
Anomalous compression and new high-pressure phases of vanadium sesquioxide, V_2O_3 .
Journal of physics / Condensed matter, 25(38):385401, and DESY-2013-00758.
<http://dx.doi.org/10.1088/0953-8984/25/38/385401>
- S. Pabst.
Atomic and molecular dynamics triggered by ultrashort light pulses on the atto- to picosecond time scale.
European physical journal special topics, 221(1):1 – 71, and DESY-2014-02072.
<http://dx.doi.org/10.1140/epjst/e2013-01819-x>
- S. Pabst and R. Santra.
Strong-field many-body physics and the giant enhancement in the high-harmonic spectrum of Xenon.
Physical review letters, 111(23):233005, and DESY-2014-01879.
<http://dx.doi.org/10.1103/PhysRevLett.111.233005>
- V. Pankratov et al.
Luminescence and ultraviolet excitation spectroscopy of SrI_2 and $\text{SrI}_2:\text{Eu}^{2+}$.
Radiation measurements, 56:13 – 17, and DESY-2013-00949.
<http://dx.doi.org/10.1016/j.radmeas.2013.02.022>
- H. J. Park et al.
Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers.
Optics express, 21(23):28729, and DESY-2013-01295.
<http://dx.doi.org/10.1364/OE.21.028729>
- J.-S. Park, U. Lienert, P. R. Dawson, and M. P. Miller.
Quantifying Three-Dimensional Residual Stress Distributions Using Spatially-Resolved Diffraction Measurements and Finite Element Based Data Reduction.
Experimental mechanics, 53(9):1491 – 1507, and DESY-2014-02207.
<http://dx.doi.org/10.1007/s11340-013-9771-0>
- A. D. Parsons et al.
Ultra-broadband support determination for extreme ultraviolet coherent diffractive imaging from a high harmonic source.
Journal of optics, 15(9):094009 –, and DESY-2014-01777.
<http://dx.doi.org/10.1088/2040-8978/15/9/094009>
- H. B. Pedersen et al.
Photolysis of water-radical ions H_2O^+ in the xuv: Fragmentation through dicationic states.
Physical review / A, 87:013402, and PHPPUBDB-23710.
<http://dx.doi.org/10.1103/PhysRevA.87.013402>
- E. Pedersoli et al.
Mesoscale morphology of airborne core-shell nanoparticle clusters: x-ray laser coherent diffraction imaging.
Journal of physics / B, 46(16):164033, and DESY-2013-01297.
<http://dx.doi.org/10.1088/0953-4075/46/16/164033>
- M. Y. Peng et al.
Long-term stable, sub-femtosecond timing distribution via a 12-km polarization-maintaining fiber link: approaching 10^{-21} link stability.
Optics express, 21(17):19982 –, and DESY-2013-00760.
<http://dx.doi.org/10.1364/OE.21.019982>
- N. Poccia, A. Ricci, G. Campi, A.-S. Caporale, and A. Bianconi.
Competing Striped Structures in $\text{La}_2\text{CuO}_{4+y}$.
Journal of superconductivity and novel magnetism, 26(8):2703 – 2708, and DESY-2014-02199.
<http://dx.doi.org/10.1007/s10948-013-2164-x>
- T. Poehlsen et al.
Study of the accumulation layer and charge losses at the Si– SiO_2 interface in p+n-silicon strip sensors.
Nuclear instruments & methods in physics research / A, 721:26 – 34, and DESY-2014-01946.
<http://dx.doi.org/10.1016/j.nima.2013.04.026>
- A. I. Popov et al.
Comparative study of the luminescence properties of macro- and nanocrystalline MgO using synchrotron radiation.
Nuclear instruments & methods in physics research / B, 310:23 – 26, and DESY-2013-00185.
<http://dx.doi.org/10.1016/j.nimb.2013.05.017>

V. V. Popov et al.

Trends in formation of the nanocrystalline structure and cationic ordering in the $Dy_2O-3-HfO_2$ (1 : 1) system.
Russian journal of inorganic chemistry, 58:331–337, and PHPPUBDB-26207.

<http://dx.doi.org/10.1134/S0036023613030121>

V. V. Popov et al.

Characteristic features of the nanocrystalline structure formation in $Ln_2Hf_2O_7$ (Ln = Gd, Dy) compounds.
Russian journal of inorganic chemistry, 58(12):1400 – 1407, and DESY-2014-01617.

<http://dx.doi.org/10.1134/S0036023613120164>

W. P. Putnam, M. D. W. Grogan, S. Ramachandran, F. Kaertner, and D. Schimpf.

Radially polarized Bessel-Gauss beams: decentered Gaussian beam analysis and experimental verification.

Optics express, 21(15):18469 –, and DESY-2013-00447.

<http://dx.doi.org/10.1364/OE.21.018469>

F. Pyczak et al.

Plastic deformation mechanisms in a crept L12 hardened Co-base superalloy.

Materials science and engineering / A, 571:13 – 18, and DESY-2013-00692.

<http://dx.doi.org/10.1016/j.msea.2013.02.007>

S. Rackwitz et al.

A new sample environment for cryogenic nuclear resonance scattering experiments on single crystals and microsamples at P01, PETRA III.

Hyperfine interactions, -(–):–, and DESY-2014-01280.

<http://dx.doi.org/10.1007/s10075-013-0981-8>

J. Rana et al.

Structural Changes in Li_2MnO_3 Cathode Material for Li-Ion Batteries.

Advanced energy materials, 4:1300998, and DESY-2014-01165.

<http://dx.doi.org/10.1002/aenm.201300998>

L. Redecke et al.

Natively inhibited Trypanosoma brucei cathepsin B structure determined by using an X-ray laser.

Science, 339:227–230, and PHPPUBDB-24619.

<http://dx.doi.org/10.1126/science.1229663>

T. Renger, M. E.-A. Madjet, M. Schmidt am Busch, J. Adolphs, and F. Müh.

Structure-based modeling of energy transfer in photosynthesis.

Photosynthesis research, 116(2-3):367 – 388, and DESY-2013-00952.

<http://dx.doi.org/10.1007/s11120-013-9893-3>

T. Reusch et al.

Standing surface acoustic waves in $LiNbO_3$ studied by time resolved X-ray diffraction at Petra III.

AIP Advances, 3(7):072127 –, and DESY-2013-00823.

<http://dx.doi.org/10.1063/1.4816801>

R. Reuschl et al.

Lifetime measurement of the 2^3P_0 state in He-like uranium.

Physica scripta, T156:014024, and DESY-2014-01958.

<http://dx.doi.org/10.1088/0031-8949/2013/T156/014024>

A. Ricci et al.

Multiscale distribution of oxygen puddles in 1/8 doped

$YBa_2Cu_3O_{6.67}$.

Scientific reports, 3:2383, and DESY-2014-01935.

<http://dx.doi.org/10.1038/srep02383>

M. Richter, A. Sorokin, and K. Tiedtke.

The impact of pulse duration on multiphoton ionization in the soft X-ray regime.

Proceedings of SPIE, volume 8778, page 877808, Bellingham, Wash., 04/17/2013 - 04/18/2013 2013. Advances in X-ray Free-Electron Lasers II: Instrumentation, Prague (Czech Republic), SPIE. <http://dx.doi.org/10.1117/12.2021298>

R. Riedel et al.

Long-term stabilization of high power optical parametric chirped-pulse amplifiers.

Optics express, 21(23):28987, and DESY-2014-02205.

<http://dx.doi.org/10.1364/OE.21.028987>

T. Ritschel et al.

Pressure dependence of the charge density wave in $1T-TaS_2$ and its relation to superconductivity.

Physical review / B, 87(12):125135, and DESY-2013-00717.

<http://dx.doi.org/10.1103/PhysRevB.87.125135>

A. Rodríguez-Fernández et al.

Chiral properties of hematite $\alpha-Fe_2O_3$ inferred from resonant Bragg diffraction using circularly polarized x rays.

Physical review / B, 88(9):094437, and DESY-2013-00855.

<http://dx.doi.org/10.1103/PhysRevB.88.094437>

R. Roehlsberger.

Cooperative emission from nuclei: The collective Lamb shift and electromagnetically induced transparency.

Fortschritte der Physik, 61(2-3):360 – 376, and DESY-2014-02231.

<http://dx.doi.org/10.1002/prop.201200074>

A. Roschger et al.

Differential accumulation of lead and zinc in double-tidemarks of articular cartilage.

Osteoarthritis and cartilage, 21(11):1707 – 1715, and DESY-2014-01840.

<http://dx.doi.org/10.1016/j.joca.2013.06.029>

F. Roth, E. Müller, B. Rellinghaus, B. Büchner, and M. Knapfer.

Electronic excitation spectrum of calcium-doped picene: Electron energy-loss spectroscopy study.

Physical review / B, 88(20):205105, and DESY-2014-00141.

<http://dx.doi.org/10.1103/PhysRevB.88.205105>

A. Rothkirch et al.

Single-crystal diffraction at the Extreme Conditions beamline P02.2: procedure for collecting and analyzing high-pressure single-crystal data.

Journal of synchrotron radiation, 20(5):711 – 720, and DESY-2013-00741.

<http://dx.doi.org/10.1107/S0909049513018621>

A. Rouzée et al.

Towards imaging of ultrafast molecular dynamics using FELs.

Journal of physics / B, 46(16):164029 –, and DESY-2014-02015.

<http://dx.doi.org/10.1088/0953-4075/46/16/164029>

- B. Rudek et al.
Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser.
Physical review / A, 87:023413, and PHPPUBDB-25915.
<http://dx.doi.org/10.1103/PhysRevA.87.023413>
- C. Rudisch et al.
Coupling of Li motion and structural distortions in olivine LiMnPO_4 from ^7Li and ^{31}P NMR.
Physical review / B, 88:054303, and DESY-2013-00716.
<http://dx.doi.org/10.1103/PhysRevB.88.054303>
- J. Rudolph et al.
X-Ray Resonant Photoexcitation: Linewidths and Energies of $K\alpha$ Transitions in Highly Charged Fe Ions.
Physical review letters, 111(10):103002, and DESY-2013-00798.
<http://dx.doi.org/10.1103/PhysRevLett.111.103002>
- M. Rössle et al.
Electric-field-induced polar order and localization of the confined electrons in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures.
Physical review letters, 110:136805, and PHPPUBDB-24465.
<http://dx.doi.org/10.1103/PhysRevLett.110.136805>
- K. Saksl et al.
Local structure of metallic chips examined by X-ray microdiffraction.
Journal of alloys and compounds, 581:579 – 584, and DESY-2013-00714.
<http://dx.doi.org/10.1016/j.jallcom.2013.07.163>
- P. P. Samuel et al.
Synthesis and Characterization of a Two-Coordinate Manganese Complex and its Reaction with Molecular Hydrogen at Room Temperature.
Angewandte Chemie / International edition, 52(45):11817 – 11821, and DESY-2013-01008.
<http://dx.doi.org/10.1002/anie.201304642>
- N. Sanandaji et al.
Unusual crystals of poly(ϵ -caprolactone) by unusual crystallisation: The effects of rapid cooling and fast solvent loss on the morphology, crystal structure and melting.
Polymer, 54(5):1497 – 1503, and DESY-2013-00318.
<http://dx.doi.org/10.1016/j.polymer.2013.01.014>
- I. Sankowska et al.
Non-periodicity of peak-to-peak distances in x-ray diffraction spectrums from perfect superlattices.
Journal of applied physics, 113:064302, and PHPPUBDB-25759. <http://dx.doi.org/10.1063/1.4790712>
- C. Sanloup et al.
Structural change in molten basalt at deep mantle conditions.
Nature, 503(7474):104 – 107, and DESY-2013-01070.
<http://dx.doi.org/10.1038/nature12668>
- I. Sarkar, A. Sarma, M. K. Sanyal, S. Thieß, and W. Drube.
Core level photoemission studies on conducting polypyrrole polymer nanotubes showing switching transitions.
Journal of applied physics, 114(16):163707, and DESY-2013-01127. <http://dx.doi.org/10.1063/1.4827196>
- K. Sarkar et al.
Custom-Made Morphologies of ZnO Nanostructured Films Templated by a Poly(styrene-block-ethylene oxide) Diblock Copolymer Obtained by a Sol-Gel Technique.
ChemSusChem, 6(8):1414 – 1424, and DESY-2014-01489.
<http://dx.doi.org/10.1002/cssc.201300291>
- B. Schaefer et al.
Beam characterization of FLASH from beam profile measurement by intensity transport equation and reconstruction of the Wigner distribution function.
Proceedings of SPIE, volume 8778, pages 877810–1 – 877810–11, Bellingham, Wash., 04/17/2013 - 04/18/2013 2013. Advances in X-ray Free-Electron Lasers II: Instrumentation, Prague(Czech Republic), SPIE.
<http://dx.doi.org/10.1117/12.2016975>
- C. J. Schaffer et al.
A Direct Evidence of Morphological Degradation on a Nanometer Scale in Polymer Solar Cells.
Advanced materials, 25(46):6760 – 6764, and DESY-2014-01491.
<http://dx.doi.org/10.1002/adma.201302854>
- A. Schavkan et al.
Using the MAXIPIX detector for coherent X-ray scattering applications.
Journal of physics / Conference Series, 425:202004, and PHPPUBDB-26131.
<http://dx.doi.org/10.1088/1742-6596/425/20/202004>
- T. Scheler et al.
High-Pressure Synthesis and Characterization of Iridium Trihydride.
Physical review letters, 111(21):215503, and DESY-2014-01714.
<http://dx.doi.org/10.1103/PhysRevLett.111.215503>
- K. Schlage and R. Röhlberger.
Nuclear resonant scattering of synchrotron radiation: Applications in magnetism of layered structures.
Journal of electron spectroscopy and related phenomena, 189:187 – 195, and DESY-2014-02216.
<http://dx.doi.org/10.1016/j.elspec.2013.02.005>
- C. Schmidt, M. Steele-MacInnis, A. Watenphul, and M. Wilke.
Calibration of zircon as a Raman spectroscopic pressure sensor to high temperatures and application to water-silicate melt systems.
American mineralogist, 98:643–650, and PHPPUBDB-26502.
<http://dx.doi.org/10.2138/am.2013.4143>
- J. R. Schneider.
Revolution in der Röntgentechnik.
Physik in unserer Zeit, 44(1):3, and PHPPUBDB-26517.
- K. Schnorr et al.
Time-Resolved Measurement of Interatomic Coulombic Decay in Ne_2 .
Physical review letters, 111(9):093402, and DESY-2014-02109.
<http://dx.doi.org/10.1103/PhysRevLett.111.093402>
- T. Schoonjans et al.
A general Monte Carlo simulation of energy-dispersive X-ray fluorescence spectrometers – Part 6. Quantification through iterative simulations.
Spectrochimica acta / B, 82:36–41, and PHPPUBDB-26148.
<http://dx.doi.org/10.1016/j.sab.2012.12.011>
- J. Schwandt, E. Fretwurst, R. Klanner, and J. Zhang.
Design of the AGIPD sensor for the European XFEL.
Journal of Instrumentation, 8:C01015, and PHPPUBDB-24650.
<http://dx.doi.org/10.1088/1748-0221/8/01/C01015>

- M. Schwartzkopf et al.
From atoms to layers: in situ gold cluster growth kinetics during sputter deposition.
Nanoscale, 5(11):5053–5062, and DESY-2014-01486.
<http://dx.doi.org/10.1039/c3nr34216f>
- I. Sergeev et al.
Hyperfine Splitting and Room-Temperature Ferromagnetism of Ni at Multimegabar Pressure.
Physical review letters, 111(15):157601, and DESY-2014-01812.
<http://dx.doi.org/10.1103/PhysRevLett.111.157601>
- I. Sergeev et al.
Effect of pressure, temperature, fluorine doping, and rare earth elements on the phonon density of states of LFeAsO studied by nuclear inelastic scattering.
Physical review / B, 87(6):064302, and DESY-2014-01809.
<http://dx.doi.org/10.1103/PhysRevB.87.064302>
- T. Shalapska et al.
Luminescence properties of Ce^{3+} -doped $NaPrP_4O_{12}$ polyphosphate.
Journal of physics / Condensed matter, 25:105403, and PHPPUBDB-25748.
<http://dx.doi.org/10.1088/0953-8984/25/10/105403>
- S. Sharifi, O. Marti, S. d. S. Funari, and M. Amirkhani.
The effect of different polymer length on water droplets of reverse AOT microemulsion.
Physics and chemistry of liquids, 51(5):586–594, and DESY-2014-01306.
<http://dx.doi.org/10.1080/00319104.2012.760087>
- A. Shehzad et al.
P450 BM3 crystal structures reveal the role of the charged surface residue Lys/Arg184 in inversion of enantioselective styrene epoxidation.
Chemical communications, 49(41):4694–4696, and DESY-2014-01823. <http://dx.doi.org/10.1039/c3cc39076d>
- M. P. Silva, D. M. Silva, A. Conceicao, A. Ribeiro-Silva, and M. E. Poletti.
Role of Ca, Fe, Cu and Zn in breast cancer: study by X-ray fluorescence techniques and immunohistochemical analysis.
X-ray spectrometry, 42(4):303–311, and DESY-2014-02101.
<http://dx.doi.org/10.1002/xrs.2470>
- T. Silva et al.
Structural diversity and mode of action on lipid membranes of three lactoferrin candidacidal peptides.
Biochimica et biophysica acta / Biomembranes, 1828:1329–1339, and PHPPUBDB-25949.
<http://dx.doi.org/10.1016/j.bbamem.2013.01.022>
- T. Silva, D. Andreu, S. d. S. Funari, D. Uhrkova, and M. Bastos.
Influence of cecropin A-melittin antimicrobial peptides on POPE/POPG lamellar phase periodicity.
European biophysics journal, volume 42, page S169, Berlin, 07/13/2013 - 07/17/2013 2013. 9th European Biophysics Congress, Lisbon(Portugal), Springer.
<http://dx.doi.org/10.1007/s00249-013-0917-x>
- C. Simao et al.
Solid state photodimerisation of tetrathiafulvalene derivatives bearing carboxylate and carboxylic acid substituents.
CrystEngComm, 15(46):9878–, and DESY-2014-02233.
<http://dx.doi.org/10.1039/c3ce41353e>
- R. E. Simon et al.
Nuclear forward scattering by the 68.7 keV state of ^{73}Ge in $CaGeO_3$ and GeO_2 .
epl, 104(1):17006–, and DESY-2014-01810.
<http://dx.doi.org/10.1209/0295-5075/104/17006>
- S. Simon, M. Wilke, R. Chernikov, S. Klemme, and L. Hennet.
The influence of composition on the local structure around yttrium in quenched silicate melts — Insights from EXAFS.
Chemical geology, 346:3–13, and DESY-2014-01496.
<http://dx.doi.org/10.1016/j.chemgeo.2012.09.017>
- A. Singer et al.
Hanbury Brown–Twiss Interferometry at a Free-Electron Laser.
Physical review letters, 111(3):034802, and DESY-2014-01731.
<http://dx.doi.org/10.1103/PhysRevLett.111.034802>
- J. M. Slowik and R. Santra.
X-ray phase-contrast imaging: the quantum perspective.
Journal of physics / B, 46(16):164016–, and DESY-2013-00610.
<http://dx.doi.org/10.1088/0953-4075/46/16/164016>
- C. Smith, I. Lonardelli, M. Peet, A.-C. Dippel, and H. Bhadeshia.
Enhanced thermal stability in nanostructured bainitic steel.
Scripta materialia, 69(2):191–194, and DESY-2013-00376.
<http://dx.doi.org/10.1016/j.scriptamat.2013.03.029>
- C. A. G. Soderberg et al.
The Molecular Basis of Iron-induced Oligomerization of Frataxin and the Role of the Ferroxidation Reaction in Oligomerization.
The journal of biological chemistry, 288:8156, and PHPPUBDB-26381.
<http://dx.doi.org/10.1074/jbc.M112.442285>
- S.-K. Son, H. N. Chapman, and R. Santra.
Determination of multiwavelength anomalous diffraction coefficients at high x-ray intensity.
Journal of physics / B, 46(16):164015, and DESY-2013-00608.
<http://dx.doi.org/10.1088/0953-4075/46/16/164015>
- S. Soru et al.
Structural evolution upon decomposition of the $LiAlH_4$ + $LiBH_4$ system.
Journal of alloys and compounds, Lausanne, 2013. Ismanam 2013, Turin(Italy), Elsevier.
<http://dx.doi.org/10.1016/j.jallcom.2013.12.027>
- S. Speziale, H. Marquardt, and H.-P. Liermann.
Approaches to constrain single-crystal elastic properties from Brillouin scattering of polycrystalline samples.
High pressure research, 33(3):607–621, and DESY-2013-01140.
<http://dx.doi.org/10.1080/08957959.2013.806501>
- A. Stark et al.
In Situ High-Energy XRD Study of the Hot-Deformation Behavior of a Novel γ -TiAl Alloy.
In Intermetallic-Based Alloys Science, Technology and Applications, MRS online proceedings library, volume 1516, pages mrsf12–1516–jj02–04, Warrendale, Pa., 11/25/2012 - 11/30/2012 2013. MRS Fall Meeting 2012, Boston(USA), MRS. <http://dx.doi.org/10.1557/opl.2012.1577>

H. Sternschulte et al.

Grazing-incidence small-angle X-ray scattering study on ultrananocrystalline diamond films.

Diamond and related materials, 37:68 – 73, and DESY-2014-00139.
<http://dx.doi.org/10.1016/j.diamond.2013.04.015>

S. Stille et al.

Feasibility studies for filament detection in resistively switching $SrTiO_3$ devices by employing grazing incidence small angle X-ray scattering.

Journal of applied physics, 113(6):064509 –, and DESY-2014-01798. <http://dx.doi.org/10.1063/1.4792035>

N. Stojanovic and M. Drescher.

Accelerator- and laser-based sources of high-field terahertz pulses.

Journal of physics / B, 46(19):192001 –, and DESY-2014-01906.
<http://dx.doi.org/10.1088/0953-4075/46/19/192001>

S. Stoupin et al.

Hybrid diamond-silicon angular-dispersive x-ray monochromator with 025-meV energy bandwidth and high spectral efficiency.

Optics express, 21(25):30932 –, and DESY-2014-01774.
<http://dx.doi.org/10.1364/OE.21.030932>

J. Stremper et al.

Resonant scattering and diffraction beamline P09 at PETRA III.

Journal of synchrotron radiation, 20:541–549, and PHPPUBDB-26127.
<http://dx.doi.org/10.1107/S0909049513009011>

N. Stribeck, A. Zeinolebadi, S. Fakirov, D. Bhattacharyya, and S. Botta.

Extruded blend films of poly(vinyl alcohol) and polyolefins: common and hard-elastic nanostructure evolution in the polyolefin during straining as monitored by SAXS.

Science and technology of advanced materials, 14(3):035006 –, and DESY-2014-01822.
<http://dx.doi.org/10.1088/1468-6996/14/3/035006>

N. Stribeck et al.

Thermoplastic Polyurethane Cross-Linked by Functionalized Silica. Nanostructure Evolution under Mechanical Load.

Macromolecules, 46(10):4041 – 4052, and DESY-2014-01824.
<http://dx.doi.org/10.1021/ma400512b>

H. Suchowski, P. Krogen, S.-W. Huang, F. Kaertner, and J. Moses.

Octave-spanning coherent mid-IR generation via adiabatic difference frequency conversion.

Optics express, 21(23):28892–28901, and DESY-2013-01384.
<http://dx.doi.org/10.1364/OE.21.028892>

A. Szczeszak et al.

Hydrothermal Synthesis and Structural and Spectroscopic Properties of the New Triclinic Form of $GdBO:Eu^{3+}$ Nanocrystals.

Inorganic chemistry, 52:130424094546005, and PHPPUBDB-26520. <http://dx.doi.org/10.1021/ic302525k>

A. H. Taghvaei et al.

Characterization of glassy $Co_{40}Fe_{22}Ta_8B_{30}$ alloy with very high thermal stability.

Materials letters, 93:322–325, and PHPPUBDB-23537.
<http://dx.doi.org/10.1016/j.matlet.2012.11.084>

E. J. Takahashi, P. Lan, O. Muecke, Y. Nabekawa, and K. Midorikawa.

Attosecond nonlinear optics using gigawatt-scale isolated attosecond pulses.

Nature Communications, 4:2691, and DESY-2013-01383.
<http://dx.doi.org/10.1038/ncomms3691>

R. Terzano et al.

Iron (Fe) speciation in xylem sap by XANES at a high brilliant synchrotron X-ray source: opportunities and limitations.

Analytical and bioanalytical chemistry, 405(16):5411–5419, and PHPPUBDB-26129.
<http://dx.doi.org/10.1007/s00216-013-6959-1>

R. Terzano et al.

Spatially resolved (semi)quantitative determination of iron (Fe) in plants by means of synchrotron micro X-ray fluorescence.

Analytical and bioanalytical chemistry, 405(10):3341 – 3350, and DESY-2014-02148.
<http://dx.doi.org/10.1007/s00216-013-6768-6>

G. Thomas, H.-J. Stärk, G. Wellenreuther, B. C. Dickinson, and H. Kuepper.

Effects of nanomolar copper on water plants — Comparison of biochemical and biophysical mechanisms of deficiency and sublethal toxicity under environmentally relevant conditions.

Aquatic toxicology, 140-141:27–36, and DESY-2014-01342.
<http://dx.doi.org/10.1016/j.aquatox.2013.05.008>

S. Thürmer et al.

Photoelectron Angular Distributions from Liquid Water: Effects of Electron Scattering.

Physical review letters, 111(17):173005, and DESY-2014-01933.
<http://dx.doi.org/10.1103/PhysRevLett.111.173005>

J. Torrens-Serra, M. Stoica, J. Bednarcik, J. Eckert, and S. Kustov.

Elastic and anelastic properties close to the Curie temperature of Fe-based bulk metallic glass.

Applied physics letters, 102:041904, and PHPPUBDB-26088.
<http://dx.doi.org/10.1063/1.4789776>

M. Trebbin et al.

Anisotropic particles align perpendicular to the flow direction in narrow microchannels.

Proceedings of the National Academy of Sciences of the United States of America, 110(17):6706 – 6711, and DESY-2013-00843.
<http://dx.doi.org/10.1073/pnas.1219340110>

S. Trippel et al.

Strongly aligned and oriented molecular samples at a kHz repetition rate.

Molecular physics, 111(12-13):1738 – 1743, and DESY-2014-02100.
<http://dx.doi.org/10.1080/00268976.2013.780334>

S. Trippel, M. Stei, J. Cox, and R. Wester.

Differential Scattering Cross-Sections for the Different Product Vibrational States in the Ion-Molecule Reaction $Ar^{++}N_2$.

Physical review letters, 110(16):163201, and DESY-2014-02086.
<http://dx.doi.org/10.1103/PhysRevLett.110.163201>

- S. Uhlig et al.
Piezoresistive Ni:a-C:H thin films containing hcp-Ni or Ni_3C investigated by XRD, EXAFS, and wavelet analysis.
Diamond and related materials, 34:25 – 35, and DESY-2014-01918.
<http://dx.doi.org/10.1016/j.diamond.2013.01.013>
- D. Uhríkova et al.
DNA-cationic liposomes supramolecular assemblies: the structure and transfection efficiency.
European biophysics journal, volume 42, page S208, Berlin, 07/13/2013 – 07/17/2013 2013. 9th European Biophysics Congress, Lisbon(Portugal), Springer.
<http://dx.doi.org/10.1007/s00249-013-0917-x>
- R. Varga, J. Gamcova, P. Klein, J. Kovac, and A. Zhukov.
Tailoring the Switching Field Dependence on External Parameters in Magnetic Microwires.
IEEE transactions on magnetics, 49:30–33, and PHPPUBDB-23998.
<http://dx.doi.org/10.1109/TMAG.2012.2218224>
- J. Viefhaus et al.
The Variable Polarization XUV Beamline P04 at PETRA III: Optics, mechanics and their performance.
Nuclear instruments & methods in physics research / A, 710:151 – 154, and DESY-2014-02174.
<http://dx.doi.org/10.1016/j.nima.2012.10.110>
- V. Vistovsky et al.
Self-trapped exciton and core-valence luminescence in BaF_2 nanoparticles.
Journal of applied physics, 114(19):194306 –, and DESY-2014-01938. <http://dx.doi.org/10.1063/1.4831953>
- V. Vonk, N. Khorshidi, H. Dosch, and A. Stierle.
Atomic structure and composition of the yttria-stabilized zirconia (111) surface.
Applied surface science, 612:69–76, and PHPPUBDB-26575.
<http://dx.doi.org/10.1016/j.susc.2013.02.014>
- J. Wagner, C. Markert, B. Fischer, and L. Mueller.
Direction Dependent Diffusion of Aligned Magnetic Rods by Means of X-Ray Photon Correlation Spectroscopy.
Physical review letters, 110:048301, and DESY-2014-01786.
<http://dx.doi.org/10.1103/PhysRevLett.110.048301>
- H. Walker et al.
Circularly polarized x-ray scattering investigation of spin-lattice coupling in $TbMnO_3$ in crossed electric and magnetic fields.
Physical review / B, 88(21):214415, and DESY-2014-02057.
<http://dx.doi.org/10.1103/PhysRevB.88.214415>
- A. Wandzilak et al.
The oxidation states and chemical environments of iron and zinc as potential indicators of brain tumour malignancy grade – preliminary results.
Metallomics, 5:1547, and DESY-2014-00064.
<http://dx.doi.org/10.1039/c3mt00158j>
- X. D. Wang et al.
Structural evolution in bulk metallic glass under high-temperature tension.
Applied physics letters, 102:051909, and PHPPUBDB-26089.
<http://dx.doi.org/10.1063/1.4790393>
- Y. Wang et al.
Production, Purification and Characterization of Recombinant, Full-Length Human Claudin-1.
PLoS one, 8(5):e64517 –, and DESY-2014-02084.
<http://dx.doi.org/10.1371/journal.pone.0064517>
- S. Wei et al.
Polyamorphous transformation in bulk metallic glass-forming liquid and its implication to strong liquids.
AIP conference proceedings, volume 1518, pages 260–265, Melville, NY, 12/02/2012 – 12/07/2012 2013. 4th International Symposium on Slow Dynamics in Complex Systems: Keep Going Tohoku, Sendai, Japan(Japan).
<http://dx.doi.org/10.1063/1.4794577>
- S. Wei et al.
Liquid–liquid transition in a strong bulk metallic glass-forming liquid.
Nature Communications, 4:2083 (9 pages), and DESY-2013-00294. <http://dx.doi.org/10.1038/ncomms3083>
- C. Wejdemann, H. F. Poulsen, U. Lienert, and W. Pantleon.
In Situ Observation of the Dislocation Structure Evolution During a Strain Path Change in Copper.
JOM, 65(1):35 – 43, and DESY-2014-02236.
<http://dx.doi.org/10.1007/s11837-012-0504-0>
- P. Wessels et al.
XMCD microscopy with synchronized soft X-ray and laser pulses at PETRA III for time-resolved studies.
Journal of physics / Conference Series, volume 463, page 012023, Bristol, 08/05/2012 – 08/10/2012 2013. 11th International Conference on X-ray Microscopy (XRM2012), Shanghai(China), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/463/1/012023>
- F. Westermeier et al.
X-ray photon correlation spectroscopy using the Mythen 1D detector.
Journal of physics / Conference Series, volume 425, page 202005, Bristol, 2012-07-09 – 2012-07-13 2013. SRI 2012, Lyon(France), IOP Publ.
<http://dx.doi.org/10.1088/1742-6596/425/20/202005>
- T. White et al.
Crystallographic data processing for free-electron laser sources.
Acta crystallographica / D, 69(7):1231 – 1240, and DESY-2013-00161.
<http://dx.doi.org/10.1107/S0907444913013620>
- D. C. F. Wieland et al.
Formation of iron containing aggregates at the liquid-air interface.
Colloids and surfaces / B, 109:74–81, and PHPPUBDB-26556.
<http://dx.doi.org/10.1016/j.colsurfb.2013.03.006>
- K. Wieteska et al.
Synchrotron diffraction topography of $Sr_xBa_{1-x}Nb_2O_6$ (SBN), $Ca_xBa_{1-x}Nb_2O_6$ (CBN) and mixed $(Ca_{0.28}Ba_{0.72})_y(Sr_{0.61}Ba_{0.39})_{1-y}Nb_2O_6$ (CSBN) crystals.
Radiation physics and chemistry, 93:87 – 91, and DESY-2014-02005.
<http://dx.doi.org/10.1016/j.radphyschem.2013.05.016>

M. Wilke et al.

Insights from X-ray absorption/fluorescence spectroscopy and ab-initio molecular dynamics on concentration and complexation of Zr and Hf in aqueous fluids at high pressure and temperature.

Journal of physics / Conference Series, volume 430, page 012122, Bristol, 2013. 15th International Conference on X-Ray Absorption Fine Structure (XAFS), Beijing(China), IOP Publ. <http://dx.doi.org/10.1088/1742-6596/430/1/012122>

M. Wilke et al.

Corrigendum to “Zircon solubility and zirconium complexation in $H_2O + Na_2O + SiO_2 \pm Al_{23}$ fluids at high pressure and temperature” [Earth Planet. Sci. Lett. 349–350 (2012) 15–25].

Earth and planetary science letters, 373:242 – 243, and DESY-2014-01499. <http://dx.doi.org/10.1016/j.epsl.2013.04.010>

B. Winkler et al.

Synthesis and characterization of $^{55}Fe_2O_3$ for the investigation of radioparagenesis.

Solid state sciences, 18:58 – 63, and DESY-2014-01367. <http://dx.doi.org/10.1016/j.solidstatesciences.2012.12.006>

A. Wirth, R. Santra, and E. Goulielmakis.

Real time tracing of valence-shell electronic coherences with attosecond transient absorption spectroscopy.

The journal of chemical physics, 414:149–159, and PHPPUBDB-26078. <http://dx.doi.org/10.1016/j.chemphys.2012.06.003>

J. Wolny et al.

Experimental evidence of the vibrational coupling of nearest neighbours in 1D spin crossover polymers of rigid bridging ligands.

Hyperfine interactions, Dordrecht [u.a.], 2013. 32nd International Conference on the Applications of the Mössbauer Effect (ICAME 2013), Opatija(Croatia), Springer Science + Business Media B.V. <http://dx.doi.org/10.1007/s10751-013-0955-x>

L. J. Wong, A. Fallahi, and F. Kaertner.

Compact electron acceleration and bunch compression in THz waveguides.

Optics express, 21:9792, and PHPPUBDB-26299. <http://dx.doi.org/10.1364/OE.21.009792>

P. Wrobel and M. Czyzycki.

Direct deconvolution approach for depth profiling of element concentrations in multi-layered materials by confocal micro-beam X-ray fluorescence spectrometry.

Talanta, 113:62–67, and PHPPUBDB-26536. <http://dx.doi.org/10.1016/j.talanta.2013.03.087>

Y. Xiao et al.

Generalized Synthesis of Mesoporous Rare Earth Oxide Thin Films through Amphiphilic Ionic Block Copolymer Templating.

European journal of inorganic chemistry, 2013(8):1251 – 1257, and DESY-2014-01485. <http://dx.doi.org/10.1002/ejic.201201524>

F. Xue, X.-s. Chen, L.-j. An, S. d. S. Funari, and S. Jiang.

Confined lamella formation in crystalline-crystalline poly(ethylene oxide)-b-poly(-caprolactone) diblock copolymers.

Chinese Journal of polymer science, 31(9):1260 – 1270, and DESY-2014-02194. <http://dx.doi.org/10.1007/s10118-013-1325-5>

O. Yefanov and I. Vartanants.

Orientation determination in single-particle x-ray coherent diffraction imaging experiments.

Journal of physics / B, 46(16):164013 –, and DESY-2014-01730. <http://dx.doi.org/10.1088/0953-4075/46/16/164013>

C.-S. Yoo, M. Kim, W. Morgenroth, and P. Liermann.

Transformation and structure of silicatelike $CO_2 - V$.

Physical review / B, 87(21):214103, and DESY-2013-00739. <http://dx.doi.org/10.1103/PhysRevB.87.214103>

S. Yu et al.

Formation of Al Nanostructures on Alq3: An in Situ Grazing Incidence Small Angle X-ray Scattering Study during Radio Frequency Sputter Deposition.

The journal of physical chemistry letters, 4(18):3170 – 3175, and DESY-2014-01046. <http://dx.doi.org/10.1021/jz401585d>

A. Zeinolebadi et al.

SAXS investigation of structure-property relationship of polypropylene/montmorillonite composites during load cycling.

Polymers for advanced technologies, 24(8):693 – 704, and DESY-2014-01806. <http://dx.doi.org/10.1002/pat.3132>

A. Zenkevich et al.

Electronic and electrical properties of functional interfaces studied by hard X-ray photoemission.

Journal of electron spectroscopy and related phenomena, 190(PartB):302 – 308, and DESY-2013-01309. <http://dx.doi.org/10.1016/j.elspec.2013.08.003>

A. Zenkevich et al.

Electronic band alignment and electron transport in $Cr/BaTiO_3/Pt$ tunnel junctions.

Applied physics letters, 102:062907, and PHPPUBDB-21401. <http://dx.doi.org/10.1063/1.4792525>

J. Zhang et al.

Structural Evolution of Perpendicular Lamellae in Diblock Copolymer Thin Films during Solvent Vapor Treatment Investigated by Grazing-Incidence Small-Angle X-Ray Scattering.

Macromolecular rapid communications, 34(16):1289 – 1295, and DESY-2013-00744. <http://dx.doi.org/10.1002/marc.201300314>

Q. Zhong et al.

The influence of selective solvents on the transition behavior of poly(styrene-b-monomethoxydiethylenglycol-acrylate-b-styrene) thick films.

Colloid & polymer science, 291(6):1439 – 1451, and DESY-2014-02195. <http://dx.doi.org/10.1007/s00396-012-2879-4>

B. Ziaja, Z. Jurek, N. Medvedev, R. Thiele, and S. Toleikis.

A review of environment-dependent processes within FEL excited matter.

High energy density physics, 9(3):462 – 472, and DESY-2014-01793. <http://dx.doi.org/10.1016/j.hedp.2013.04.014>

B. Ziaja et al.

Photoelectron spectroscopy method to reveal ionization potential lowering in nanoplasmas.

Journal of physics / B, 46(16):164009, and DESY-2013-00607.

<http://dx.doi.org/10.1088/0953-4075/46/16/164009>

A. Zozulya et al.

In situ X-ray crystallographic study of the structural evolution of colloidal crystals upon heating.

Journal of applied crystallography, 46(4):903–907, and DESY-2013-00133.

<http://dx.doi.org/10.1107/S0021889813003725>

P. Staron et al.

Depth-Resolved Residual Stress Analysis with Conical Slits for High-Energy X-Rays.

Materials science forum, volume 772, pages 3 – 7, Uetikon, 09/07/2011 - 09/09/2011 2014. 6th International Conference on Mechanical Stress Evaluation by Neutrons and Synchrotron Radiation, Hamburg(Germany), Trans Tech Publ.

<http://dx.doi.org/10.4028/www.scientific.net/MSF.772.3>

P. Staron et al.

Depth-Resolved Residual Stress Analysis with High-Energy Synchrotron X-Rays Using a Conical Slit Cell.

Materials science forum, volume 768-769, pages 72 – 75, Uetikon, 10/07/2012 - 10/12/2012 2014. 9th International Conference on Residual Stresses, Garmisch-Partenkirchen(Germany), Trans Tech Publ.

<http://dx.doi.org/10.4028/www.scientific.net/MSF.768-769.72>

Dissertationen

A. Allahgholi.

Untersuchung von CeO_x -, PrO_x - und $\text{Ce}_x\text{Pr}_{1-x}\text{O}_{2-\delta}$ -Filmen auf Si(111) mittels hochenergetischer Röntgen-Photoelektronenspektroskopie.

Universität Bremen, Hamburg, 2013.

F. Bertram.

The structure of ultrathin iron oxide films studied by x-ray diffraction.

Universität Osnabrück, Osnabrück, 2013.

M. E. Brennich.

Cation induced self-assembly of intermediate filaments.

Göttingen, 2013.

B. Erk.

Fragmentation Dynamics of Small Molecules upon Multiple Ionization by X-Ray Free-Electron Laser Pulses.

Heidelberg University, Heidelberg, 2013.

M. Feyand.

Synthese und in situ Untersuchungen von anorganisch-organischen Hybridverbindungen auf Basis von Metallphosphonaten und Bismutcarboxylaten.

Christian-Albrechts Universität zu Kiel, 2013.

S. Jaksch.

Phasenverhalten von Poly(2-Oxazolin) in wässriger Lösung.

Technische Universität München, 2013.

A. Kickermann.

Rotational Coherence Spectroscopy at FLASH: Toward Dynamic Studies in Nanosuperfluids.

University of Hamburg, 2013.

A. Knie.

Photon induced inner-shell excitation processes of nitrous oxide probed by angle resolved fluorescence and Auger-Electron spectrometry.

Univ. Kassel, Kassel, 2013.

D. Kriegner.

Crystallographic investigations of nanowires and nanocrystals.

University Linz, 2013.

E. Maawad.

Residual Stress Analysis and Fatigue Behavior of Mechanically Surface Treated Titanium Alloys.

TU Clausthal, Geesthacht, 2013.

M. Niedermeier.

Novel structuring routines of titania films for application in photovoltaics.

Technische Universität München, 2013.

S. Pabst.

New Theoretical Approaches to Atomic and Molecular Dynamics triggered by Ultrashort Light Pulses on the Atto- to Picosecond Time Scale.

Univ. Hamburg, Hamburg, 2013.

J. Rana.

Investigation of structural changes in cathode materials for rechargeable Li-ion batteries by X-ray Absorption Spectroscopy.

Technische Universität Berlin, Berlin, 2013.

<http://dx.doi.org/10.5442/D0038>

M. Rawolle.

Structuring and filling of titania films for applications in photovoltaics.

Technische Universität München, 2013.

H. Reinsch.

Synthese und Eigenschaften poröser metall-organischer Gerüstverbindungen basierend auf dreiwertigen Kationen.

Christian-Albrechts Universität zu Kiel, 2013.

M. Schlie.

Time-resolved studies at PETRA III with a highly repetitive synchronized laser system.

Universität Hamburg, Hamburg, 2013.

L. Schroedter.

Extreme Ultraviolet Fluorescence Spectroscopy of Pure and Core-Shell Rare Gas Clusters at FLASH.

Universität Hamburg, Hamburg, 2013.

M. Schulz.

High Energy High Repetition-Rate Thin-Disk Amplifier for OPCPA Pumping.

University of Hamburg, Hamburg, 2013.

J. Shablonin.

Processes of structural defect creation in pure and doped MgO and NaCl single crystals under condition of low or super high density of electronic excitations.

University of Tartu, Tartu, 2013.

S. L. Souza.

On the physical-chemical properties of ceramide C16 and of its mixtures with cholesterol, palmitic acid and cholesteryl oleate.

ITQB-U. Nova de Lisboa, 2013.

A. Steffen.

Untersuchung der Diamant-Metall-Grenzfläche in Diamantverbundwerkstoffen.

TU Dortmund, Dortmund, 2013.

I. Stehle.

Einfluss der W4R-Mutation im Muskel-LIM-Protein auf die funktionellen und strukturellen Eigenschaften von Skelettmuskelfasern aus dem Musculus vastus lateralis der Maus.

Leibniz University Hannover, 2013.

S. Stern.

Controlled Molecules for X-ray Diffraction Experiments at Free-Electron Lasers.

University of Hamburg, DESY, 2013.

J. Zhang.

X-ray Radiation Damage Studies and Design of a Silicon Pixel Sensor for Science at the XFEL.

University of Hamburg, Hamburg, 2013.

Diplomarbeiten

S. Brunner.

Blockcopolymere für Anwendungen als Feststoffelektrolyte in der Energiespeicherung.

Technische Universität München, 2013.

J. Hellert.

Kontrollierte Morphologien durch molekulares Design und Nanostrukturierung für die Anwendung in der organischen Photovoltaik.

Technische Universität München, 2013.

Masterarbeiten

I.-M. Zougrou.

Study of fossils using synchrotron radiation based techniques.

Aristotle University of Thessaloniki, 2010.

S. Berovka.

Spectroscopic properties and applications of the layered perovskites.

Oleksandr Dovzhenko Glukhiv National Pedagogical University, Glukhiv, 2013.

P. Chunsod.

Synthese und Struktur-Eigenschafts-Beziehungen von niedrigfluorierten Methacrylat-Polymeren.

Hochschule für Technik und Wirtschaft Dresden, 2013.

O. de Castro.

Untersuchung der Struktur und des Umwandlungsmechanismus von kolloidalen Calcioprotein-Partikeln mittels *Rntgen – Kleinwinkelstreuung*.

RWTH Aachen, 2013.

S. Eckner.

Untersuchung der atomaren Struktur von $\text{Cu(In,Ga)}\text{S}_2$ mittels Röntgenabsorptionsspektroskopie.

Institut für Festkörperphysik, Friedrich-Schiller-Universität Jena, 2013.

T. Fröhlich.

Untersuchung der Dynamik martensitischer Phasenumwandlungen mittels sichtbarem Licht und Roentgenstrahlung.

RWTH Aachen, 2013.

C. Jendrzewski.

Systematic investigation on ternary bulk heterojunction solar cells based on PTB7:PC70BM.

Technische Universität München, 2013.

S. Proeller.

Structure and Function of Nanoparticle-Based Hybrid Solar Cells.

Technische Universität München, 2013.

I. Shtanko.

Luminescence spectroscopy of complex zirconium oxide compounds.

Oleksandr Dovzhenko Glukhiv National Pedagogical University, Glukhiv, 2013.

S. Stracke.

Messung von Kristallitgroessenverteilungen ueber Einzelreflexe in Debye-Scherrer-Ringen: Eis Ih.

Universität Göttingen, 2013.

S. Tresintsi.

Evaluation of Fe/MgO Nanoparticles for Arsenic Removal.

Aristotle University of Thessaloniki, 2013.

S. Valente.

Timing Distribution with Femtosecond Modelocked Lasers.

University of L'Aquila, L'Aquila, Hamburg, 2013.

XFEL

Veröffentlichungen

R. P. Kurta, M. Altarelli, and I. A. Vartanyants.

X-Ray Cross-Correlation Analysis of Disordered Ensembles of Particles: Potentials and Limitations.

Advances in condensed matter physics, and.

F. Capotondi et al.

Coherent diffraction imaging project at FERMI@Elettra: first commissioning results and research opportunities.

Proceedings of SPIE, 8778:32, and PHPPUBDB-26508.

S. Duesterer et al.

Interference in the angular distribution of photoelectrons in superimposed XUV and optical laser fields.

Journal of physics / B, 46(16):164026, and

DESY-2014-00793.

<http://dx.doi.org/10.1088/0953-4075/46/16/164026>

J. Feldhaus et al.

AMO science at the FLASH and European XFEL free-electron laser facilities.

Journal of physics / B, 46(16):164002 –, and

DESY-2014-01932.

<http://dx.doi.org/10.1088/0953-4075/46/16/164002>

L. Juha et al.

Results from single shot grazing incidence hard x-ray damage measurements conducted at the SACLA FEL.

Proceedings of SPIE, volume 8777, Bellingham, Wash.,

04/15/2013 - 04/15/2013 2013. SPIE Optics +

Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/doi:10.1117/12.2017725>

A. Koch et al.

Performance of an LPD prototype detector at MHz frame rates under Synchrotron and FEL radiation.

Journal of Instrumentation, volume 8, page C11001, London, 06/23/2013 - 06/27/2013 2013. 15th International Workshop on Radiation Imaging Detectors, Paris(France), Inst. of Physics.

<http://dx.doi.org/10.1088/1748-0221/8/11/C11001>

R. Kurta, R. Dronyak, M. Altarelli, E. Weckert, and I. Vartanians.

Solution of the phase problem for coherent scattering from a disordered system of identical particles.

New journal of physics, 15(1):013059 -, and DESY-2014-01736.

<http://dx.doi.org/10.1088/1367-2630/15/1/013059>

W. Laasch and T. Tschentscher.

Joint European XFEL and DESY Photon Science Users' Meeting 2013.

Synchrotron radiation news, 26(3):45–48, and PHPPUBDB-26592.

<http://dx.doi.org/10.1080/08940886.2013.791220>

H. T. Lemke et al.

Femtosecond X-ray Absorption Spectroscopy at a Hard X-ray Free Electron Laser: Application to Spin Crossover Dynamics.

The journal of physical chemistry, 117(4):735 – 740, and DESY-2014-02245. <http://dx.doi.org/10.1021/jp312559h>

N. D. Loh et al.

Sensing the wavefront of x-ray free-electron lasers using aerosol spheres.

Optics express, 21(10):12385, and DESY-2013-01298.

<http://dx.doi.org/10.1364/OE.21.012385>

H. J. Park et al.

Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers.

Optics express, 21(23):28729, and DESY-2013-01295.

<http://dx.doi.org/10.1364/OE.21.028729>

L. Redecke et al.

Natively inhibited Trypanosoma brucei cathepsin B structure determined by using an X-ray laser.

Science, 339:227–230, and PHPPUBDB-24619.

<http://dx.doi.org/10.1126/science.1229663>

R. Sobierajski et al.

Experimental set-up and procedures for the investigation of XUV free electron laser interactions with solids.

Journal of Instrumentation, 8:P02010, and

PHPPUBDB-25898.

<http://dx.doi.org/10.1088/1748-0221/8/02/P02010>

S. Tomin, N. Smolyakov, G. A. Geloni, J. Pflueger, and Y. Li.

Analysis of magnetic properties of the European XFEL undulator prototype.

Journal of physics / Conference Series, 425(3):032003, and DESY-2013-01337.

<http://dx.doi.org/10.1088/1742-6596/425/3/032003>

W. Wierzchowski et al.

Investigation of damage induced by intense femtosecond XUV pulses in silicon crystals by means of white beam synchrotron section topography.

Radiation physics and chemistry, 93:99 – 103, and

DESY-2014-01775.

<http://dx.doi.org/10.1016/j.radphyschem.2013.04.025>

Veröffentlichungen Beschleunigerphysik

M

Veröffentlichungen

S. Ackermann et al.

Generation of Coherent 19- and 38-nm Radiation at a Free-Electron Laser Directly Seeded at 38 nm.

Physical review letters, 111(11):114801, and DESY-2013-01108.

<http://dx.doi.org/10.1103/PhysRevLett.111.114801>

S. Ackermann, B. Faatz, and V. Miltchev.

Modal analysis of a seeded free-electron laser.

Physical review / Special topics / Accelerators and beams, 16(10):1–5, and DESY-2014-00472.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.100702>

K. Czuba, T. Jezynski, M. Hoffmann, F. Ludwig, and H. Schlarb.

RF Backplane for MTCA.4-Based LLRF Control System.

IEEE transactions on nuclear science, 60(5):3615 – 3619, and DESY-2014-01945.

<http://dx.doi.org/10.1109/TNS.2013.2278380>

J. A. Ellison, K. Heinemann, M. Vogt, and M. Gooden.

Planar undulator motion excited by a fixed traveling wave: Quasiperiodic Averaging, normal forms and the FEL Pendulum.

Physical review / Special topics / Accelerators and beams, 16(9):090702, and DESY-2014-00137.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.090702>

K. Floettmann.

Generation of sub-fs electron beams at few-MeV energies.

Nuclear instruments & methods in physics research / A, 740:34–38, and DESY-2014-01067.

<http://dx.doi.org/10.1016/j.nima.2013.12.031>

K. Floettmann, V. Paramonov, and P. Orlov.

Aberrations Reduction in Deflecting RF Structures for Transformation of Particle Distribution in the Bunch.

Voprosy atomnoj nauki i techniki, 6:67–71, and DESY-2014-02105.

J. Good et al.

An Electron Beam Detector for the FLASH II Beam Dump.

Journal of physics / Conference Series, volume 425, page 122012, Bristol, 07/09/2012 – 07/13/2012 2013. 11th International Conference on Synchrotron Radiation Instrumentation, Lyon(France), IOP Publ.

<http://dx.doi.org/10.1088/1742-6596/425/12/122012>

D. R. Grosso et al.

Effect of the surface processing on the secondary electron yield of Al alloy samples.

Physical review / Special topics / Accelerators and beams, 16(5):051003, and DESY-2013-00208.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.051003>

A. Kling and R. Wanzenberg.

Beam Dynamics Activities at PETRA III.

ICFA beam dynamics newsletters, 62:235–243, and DESY-2014-01298.

D. Makowski et al.

Firmware Upgrade in xTCA Systems.

IEEE transactions on nuclear science, 60(5):3639 – 3646, and DESY-2014-01948.

<http://dx.doi.org/10.1109/TNS.2013.2275073>

A. Martinez de la Ossa et al.

High-quality electron beams from field-induced ionization injection in the strong blow-out regime of beam-driven plasma accelerators.

Nuclear instruments & methods in physics research / A, volume 740, pages 231–235, Amsterdam, 06/02/2013 – 06/07/2013 2013. 1st European Advanced Accelerator Concepts Workshop, La Biodola, Isola d'Elba(Italy), North-Holland Publ. Co.

<http://dx.doi.org/10.1016/j.nima.2013.10.016>

T. J. Maxwell et al.

Coherent-Radiation Spectroscopy of Few-Femtosecond Electron Bunches Using a Middle-Infrared Prism Spectrometer.

Physical review letters, 111(18):184801 – 184805, and DESY-2014-00547.

<http://dx.doi.org/10.1103/PhysRevLett.111.184801>

A. Navitski, S. Lagotzky, D. Reschke, X. Singer, and G. Müller.

Field emitter activation on cleaned crystalline niobium surfaces relevant for superconducting rf technology.

Physical review / Special topics / Accelerators and beams, 16(11):112001 – 112008, and DESY-2014-00549.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.112001>

P. Predki, T. Kozak, J. Szewinski, and A. Napieralski.

Recent Developments in Control Software for Optical Synchronization Applications at DESY.

IEEE transactions on nuclear science, 60(5):3461 – 3468, and DESY-2014-01922.

<http://dx.doi.org/10.1109/TNS.2013.2264737>

I. Rutkowski et al.

Vector Modulator Card for MTCA-Based LLRF Control System for Linear Accelerators.

IEEE transactions on nuclear science, 60(5):3609 – 3614, and DESY-2014-00234.

<http://dx.doi.org/10.1109/RTC.2012.6418390>

E. A. Schneidmiller and M. V. Yurkov.

Obtaining high degree of circular polarization at x-ray free electron lasers via a reverse undulator taper.

Physical review / Special topics / Accelerators and beams, 16(11):110702, and DESY-2014-00276, DESY 13-147.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.110702>

E. A. Schneidmiller, M. V. Yurkov, and M. Dohlus.

Generation of attosecond soft x-ray pulses in a longitudinal space charge amplifier.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 – 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2017018>

E. Schneidmiller and M. Yurkov.

Harmonic lasing in X-ray FELs.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 - 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2017021>

E. Schneidmiller and M. Yurkov.

Longitudinal space charge amplifier.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 - 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2017015>

E. Schneidmiller, M. Yurkov, M. Krasilnikov, and F. Stephan.

Tunable IR/THz source for pump probe experiments at the European XFEL.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 - 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/10.1117/12.2017014>

V. Shpakov et al.

Far- and near-field approximation for diffraction radiation.

Nuclear instruments & methods in physics research / B, volume 309, pages 194 – 197, Amsterdam, 09/23/2012 - 09/28/2012 2013. 5th International Conference "Channeling 2012", "Charged & Neutral Particles Channeling Phenomena", Alghero(Italy), Elsevier.

<http://dx.doi.org/10.1016/j.nimb.2013.02.056>

A. Singer et al.

Hanbury Brown–Twiss Interferometry at a Free-Electron Laser.

Physical review letters, 111(3):034802, and DESY-2014-01731.

<http://dx.doi.org/10.1103/PhysRevLett.111.034802>

W. Singer et al.

Development of Large Grain Cavities.

Physical review / Special topics / Accelerators and beams, 16:012003–1, and PHPPUBDB-24923.

<http://dx.doi.org/10.1103/PhysRevSTAB.16.012003>

S. Walston et al.

A Metrology System for a High Resolution Cavity Beam Position Monitor System.

Nuclear instruments & methods in physics research / A, 728:53 – 58, and DESY-2014-01919.

<http://dx.doi.org/10.1016/j.nima.2013.05.196>

M. V. Yurkov and E. Schneidmiller.

A possible upgrade of FLASH for harmonic lasing down to 1.3nm.

Nuclear instruments & methods in physics research / A, 717:37 – 43, and DESY-2013-01065, DESY 12-173.

<http://dx.doi.org/10.1016/j.nima.2013.04.008>

M. Yurkov, C. Henning, F. J. Grüner, M. Dohlus, and E. Shneydmiller.

Longitudinal space charge amplifier driven by a laser-plasma accelerator.

Proceedings of SPIE, Bellingham, Wash., 04/15/2013 - 04/18/2013 2013. SPIE Optics + Optoelectronics, Prague(Czech Republic), SPIE.

<http://dx.doi.org/doi:10.1117/12.2017369>

Dissertationen

M. Scholz.

Design of the Extraction Arc for the 2nd Beam Line of the Free-Electron Laser FLASH.

Universität Hamburg, Hamburg, 2013.

J. Zemella.

Untersuchungen zu einem Freie-Elektronen-Laser-Oszillator fuer den European XFEL.

University of Hamburg, DESY, 2013.

P. Zhang.

Beam Position Diagnostics with Higher Order Modes in Third Harmonic Superconducting Accelerating Cavities.

University of Manchester, Hamburg, 2013.

Masterarbeiten

T. Gehrke.

Design of Permanent Magnetic Solenoids for REGAE.

University of Hamburg, 2013.

Zentrale Dienste

Direktorium

Veröffentlichungen

F. Cerdeira et al.

Raman spectroscopy as a probe of molecular order, orientation, and stacking of fluorinated copper-phthalocyanine (F 16 CuPc) thin films.

Journal of Raman spectroscopy, 44(4):597 – 607, and
DESY-2014-01849. <http://dx.doi.org/10.1002/jrs.4231>