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Robert Thiele

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Argyropoulos, S. ; Sjöstrand, T.

Effects of color reconnection on $t\bar{t}$ final states at the LHC

[LU-TP-14-23; DESY-14-134; MCNET-14-15; arXiv:1407.6853]

Journal of high energy physics 1411(11), 43 (2014) [10.1007/JHEP11(2014)043] 

The modeling of color reconnection has become one of the dominant sources of systematic uncertainty in the top mass determination at hadron colliders. The uncertainty on the top mass due to color reconnection is conventionally estimated by taking the difference in the predictions of a model with and a model without color reconnection. [...]

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2014-12-04 10:38  [PUBDB-2014-04432] Journal Article/Internal Report

Aad, G. ; Abbott, B. ; Abdallah, J. ; et al

Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

[CERN-PH-EP-2014-209; arXiv:1409.0746]

Journal of high energy physics 1411(11), 88 (2014) [10.1007/JHEP11(2014)088] 

Several models of physics beyond the Standard Model predict neutral particles that decay into final states consisting of collimated jets of light leptons and hadrons (so-called lepton jets). These particles can also be long-lived with decay length comparable to, or even larger than, the LHC detectors' linear dimensions. [...]

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2014-12-03 10:51  [PUBDB-2014-04396] Journal Article

Priebe, M. P. ; Bernhardt, M. ; Blum, C. ; et al

Scanning X-Ray Nanodiffraction on Dictyostelium discoideum

Biophysical journal 107(11), 2662 - 2673 (2014) [10.1016/j.bpj.2014.10.027] 

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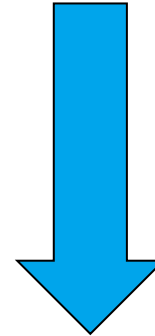
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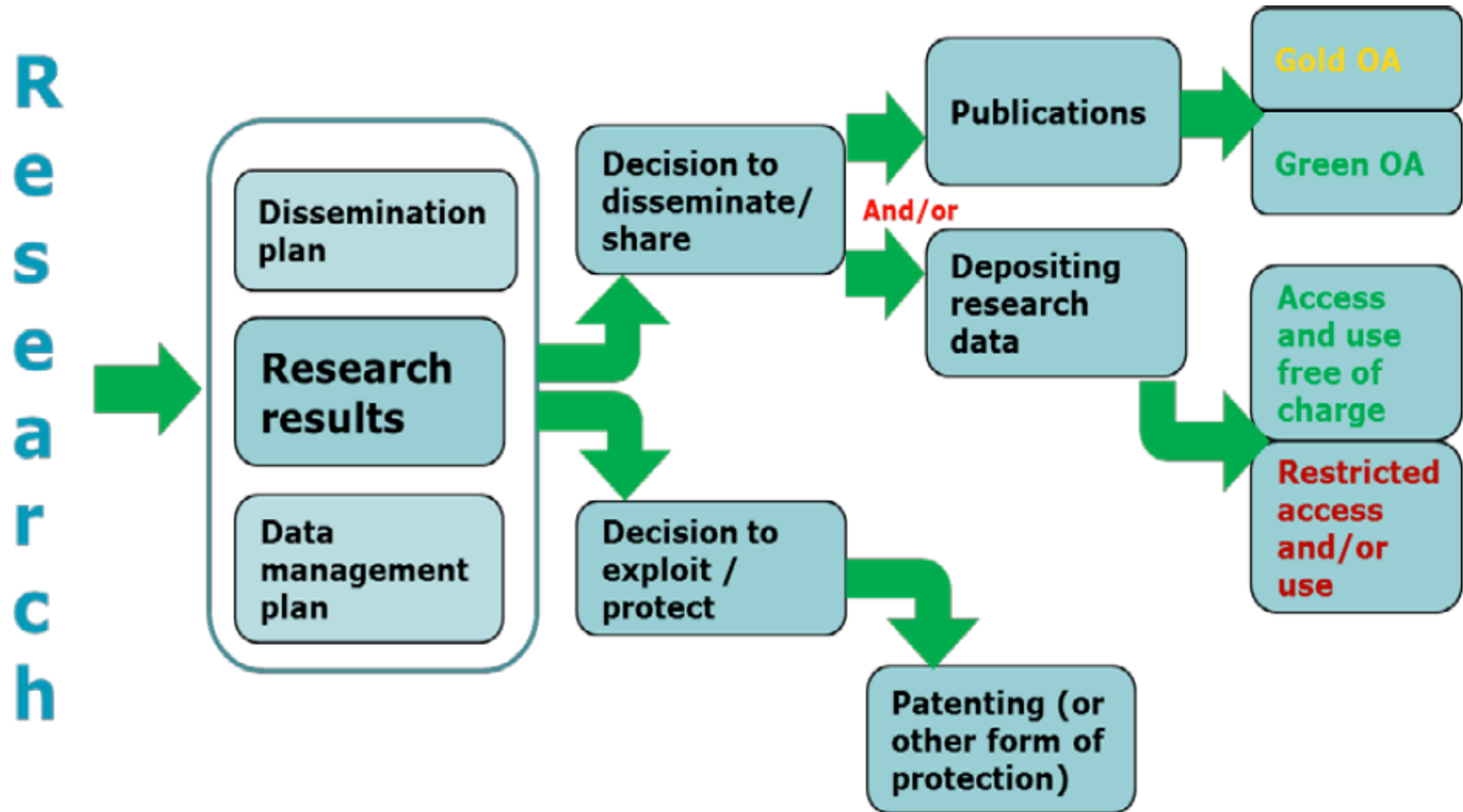
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Nemcová, V. ; Girman, V. ; Hrabčáková, V. ; Michalik, Š. ; Bednarčík, J. ; Almáši, M. ; Sovák, P.
Effect of Annealing Time on Structure of $\text{Fe}_{72.5}\text{Cu}_1\text{Nb}_2\text{Mo}_2\text{Si}_{15.5}\text{B}_7$ Alloy
Acta physica Polonica / A 126(1), 116 - 117 (2014) [10.12693/APhysPolA.126.116] LIBRARIES PDF >>

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Fine structure of phases of ϵ -family in $\text{Al}_{73.8}\text{Pd}_{11.9}\text{Co}_{14.3}$ alloy
Journal of alloys and compounds 609, 73 - 79 (2014) [10.1016/j.jallcom.2014.04.044] LIBRARIES PDF >>

Journal Article
Kolesár, V. ; Priputen, P. ; Bednarčík, J. ; Černíčková, I. ; Svoboda, M. ; Drienovský, M. ; Janovec, J.
Evolution of phases in $\text{Al}_{55}\text{Ni}_{30}\text{Pd}_{15}$ alloy at temperatures up to 600 °C
Intermetallics 46, 141 - 146 (2014) [10.1016/j.intermet.2013.11.015] LIBRARIES PDF >>

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Pikna, L. ; Milkovič, O. ; Saksl, K. ; Heželová, M. ; Smrčová, M. ; Puliš, P. ; Michalik, Š. ; Gamcová, J.
The structure of nano-palladium deposited on carbon-based supports
Journal of solid state chemistry 212, 197 - 204 (2014) [10.1016/j.jssc.2014.01.032] LIBRARIES PDF >>

Journal Article
Music, D. ; Hensling, F. ; Pazur, T. ; Bednarčík, J. ; Hans, M. ; Schnabel, V. ; Hostert, C. ; Schneider, J. M.
Bonding and elastic properties of amorphous AlYB_{14}
Solid state communications 169, 6 - 9 (2013) [10.1016/j.ssc.2013.06.022] LIBRARIES PDF >>

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Journal Article

Nis, Y

Wakefields in THz Cylindrical Dielectric Lined Waveguides Driven by Femtosecond Electron Bunches

Radiation physics and chemistry 106, 140-144 (2015)

[10.1016/j.radphyschem.2014.07.007] 

Dissertation / PhD Thesis/Internal Report

Liebig, C

Design and Construction of an Injector for an Electron/Positron Linac for Positron Yield and Minimal Particle Loss

(2014)

Contribution to a conference proceedings/Journal Article

Uglov, S. R.; Kaplin, V. V.; Polyitsyn, A. P.; Sukhikh, L. G.; Vukolov, A. V.

Investigation Of The Characteristics of EUV Backward Transition Radiation Generated by 5.7 MeV Electrons in Mono- and Multilayer Targets

X International Symposium on "Radiation from Relativistic Electrons in Structures", RREPS-13, Lake Sevan, Armenia, Journal of physics / Conf Series 517, 012009 (2014) [10.1088/1742-6596/517/1/012009] 

Poster

Uglov, S. R.; Polyitsyn, A.; Sukhikh, L. G.; Vukolov, A. V.; Kube, G.

EUV Radiation Generated by a 5.7 MeV Electron Beam in Multilayer Pe Structure

5th International Particle Accelerator Conference, IPAC14, Dresden, Germany 06/15/2014 - 06/20/2014 (2014)

Book

Schmüser, P.; Dohlus, M.; Rossbach, J.; Bahrens, C.

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Measurement of the production cross section ratio $\sigma_{\chi_{c2}(1P)} / \sigma_{\chi_{c1}(1P)}$ in pp collisions at $\sqrt{s} = 8$ TeV

Khachatryan, V.; Sirunyan, A. M.; Tumanyan, A.; Adam, W.; Bergauer, T.; Dragicevic, M.; Erö, J.; Fabjan, C.; Friedl, M.; Frühwirth, R.; Ghe, V. M.; Hartl, C.; Hörmann, N.; Hrubec, J.; Jeitler, M.; Kiesenhofer, W.; Knünz, V.; Krammer, M.; Kratschmer, I.; Liko, D.; Mikulec, I.; Rabady, D.; Rabaran, B.; Rohringer, H.; Schöfbeck, R.; Strauss, J.; Taurök, A.; Treberer-Treberspurg, W.; Waltenberger, W.; Wulz, C.-E.; Mossolov, V.; Shumelko, N.; Suarez Gonzalez, J.; Aldenweireldt, S.; Bansal, M.; Bansal, S.; Cornelis, T.; De Wolf, E. A.; Janssen, X.; Knutsson, A.; Luyckx, S.; Ochesanu, S.; Roland, B.; Rougny, R.; Van De Klundert, M.; Van Haevermaet, H.; Van Mechelen, P.; Van Remortel, N.; Van Spilbeek, A.; Blekman, F.; et al

(2014)

Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV

Khachatryan, V.; Sirunyan, A. M.; Tumanyan, A.; Adam, W.; Bergauer, T.; Dragicevic, M.; Erö, J.; Fabjan, C.; Friedl, M.; Frühwirth, R.; Ghe, V. M.; Hartl, C.; Hörmann, N.; Hrubec, J.; Jeitler, M.; Kiesenhofer, W.; Knünz, V.; Krammer, M.; Kratschmer, I.; Liko, D.; Mikulec, I.; Rabady, D.; Rabaran, B.; Rohringer, H.; Schöfbeck, R.; Strauss, J.; Taurök, A.; Treberer-Treberspurg, W.; Waltenberger, W.; Wulz, C.-E.; Mossolov, V.; Shumelko, N.; Suarez Gonzalez, J.; Aldenweireldt, S.; Bansal, M.; Bansal, S.; Cornelis, T.; De Wolf, E. A.; Janssen, X.; Knutsson, A.; Luyckx, S.; Ochesanu, S.; Rougny, R.; Van De Klundert, M.; Van Haevermaet, H.; Van Mechelen, P.; Van Remortel, N.; Van Spilbeek, A.; Blekman, F.; Blyweert, S.; et al

(2014) [10.1007/JHEP11(2014)154; 10.1007/JHEP11(2014)154] 

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ve, M.; Rohlf, S.; Kröger, E.; Bannwarth, A.; Quer, A. K. F.

nal edition 53(11), 3019-3023 (2014)

Beamline P04 at PETRA III: Optics, mechanics and

S.; Glaser, L.; Ichen, M.; Seltmann, J.; Walter, P.;

in physics research / A 710, 151 - 154 (2013)

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Upgrade of the x-ray fluorescence beamline at HASYLAB/DESY / Falkenberg, G. ; X-ray spectrometry 30 170 - 173 ; New York, NY [u.a.] : Wiley, 2001 ; 10.1002/xrs.482 ;

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APS » Journals » Phys. Rev. A » Volume 86 » Issue 3

Phys. Rev. A 86, 033411 (2012) [8 pages]

Effect of screening by external charges on the atomic orbitals at photoinduced processes within the Hartree-Fock-Slater atom

Abstract

References

Citing Articles (4)

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Robert Thiele^{1,*}, Sang-Kil Son¹, Beata Ziaja^{1,2}, and Robin Santra^{1,3}

¹Center for Free-Electron Laser Science, DESY, 22607 Hamburg, Germany

²Institute of Nuclear Physics, Polish Academy of Sciences, Radzikowskiego 152, 31-342 Kraków, Poland

³Department of Physics, University of Hamburg, 20355 Hamburg, Germany

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X-ray free-electron lasers (XFELs) are a promising tool for the structural determination of macro- and biomolecules, using coherent diffraction. The intense XFEL pulses also efficiently ionize the molecules, so it is important to estimate how the charged environment within properties, in comparison to the case of an isolated atom. Here, we apply the `xrtov` toolkit to obtain predictions on the modified ionization photoinduced processes in carbon. The Hartree-Fock-Slater model is extended to include the electron screening and ion correlation charges. With this extended model, we obtain predictions on modifications of orbital energies, photoabsorption cross sections, emission rates, and atomic scattering factors as a function of the density and temperature of the surrounding charges. Our results have dynamics within XFEL irradiated samples, in particular for those dedicated to coherent diffraction imaging.

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Internal Report

DESY-2014-03285

Prospects for CW and LP Operation of the European XFEL in Hard X-ray Regime

Brinkmann, R. (Corresponding Author)*; Schneidmiller, E. A.*; Sekutowicz, J.*; Yurkov, M. V.*

2014

Red Report (2014) [10.1016/j.nima.2014.09.039]  [LIBRARIES PDF >>](#)

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Report No.: DESY-2014-03285, DESY 14-025

Abstract: The European XFEL will operate nominally at 17.5 GeV in SP (short pulse) mode with 0.65 ms long bunch train and 10 Hz repetition rate. A possible upgrade of the linac to CW (continuous wave) or LP (long pulse) modes with a corresponding reduction of electron beam energy is under discussion since many years. Recent successes in the dedicated R&D program allow to forecast a technical feasibility of such an upgrade in the foreseeable future. One of the challenges is to provide sub-Angstrom FEL operation in CW and LP modes. In this paper we perform a preliminary analysis of a possible operation of the European XFEL in the hard X-ray regime in CW and LP modes with the energies of 7 GeV and 10 GeV, respectively. We consider lasing in the baseline XFEL undulator as well as in a new undulator with a reduced period. We show that, with reasonable requirements on electron beam quality, lasing on the fundamental will be possible in sub-Angstrom regime. As an option for generation of brilliant photon beams at short wavelengths we also consider harmonic lasing that has recently attracted a significant attention.

Note: Preprint zur Veröffentlichung im Journal "Nuclear Instruments & Methods" (DOI: 10.1016/j.nima.2014.09.039)

Contributing Institute(s):

1. Beschleunigerphysik (MPY)

Research Program(s):

1. Facility (machine) XFEL (POF2-54G17) (POF2-54G17)

Experiment(s):

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PUBDB-2014-03854

Prospects for CW and LP Operation of the European XFEL in Hard X-ray Regime

Brinkmann, R. (Corresponding Author)*; Schneidmiller, E. A.*; Sekutowicz, J.*; Yurkov, M. V.*

2014

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Abstract: The European XFEL will operate nominally at 17.5 GeV in SP (short pulse) mode with 0.65 ms long bunch train and 10 Hz repetition rate. A possible upgrade of the linac to CW (continuous wave) or LP (long pulse) modes with a corresponding reduction of electron beam energy is under discussion since many years. Recent successes in the dedicated R&D program allow to forecast a technical feasibility of such an upgrade in the foreseeable future. One of the challenges is to provide sub-Angstrom FEL operation in CW and LP modes. In this paper we perform a preliminary analysis of a possible operation of the European XFEL in the hard X-ray regime in CW and LP modes with the energies of 7 GeV and 10 GeV, respectively. We consider lasing in the baseline XFEL undulator as well as in a new undulator with a reduced period. We show that, with reasonable requirements on electron beam quality, lasing on the fundamental will be possible in sub-Angstrom regime. As an option for generation of brilliant photon beams at short wavelengths we also consider harmonic lasing that has recently attracted a significant attention.

Contributing Institute(s):

1. Beschleunigerphysik (MPY)

Research Program(s):

1. Facility (machine) XFEL (POF2-54G17) (POF2-54G17)

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