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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]
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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:1409.0748]
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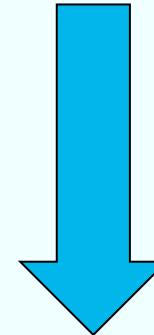
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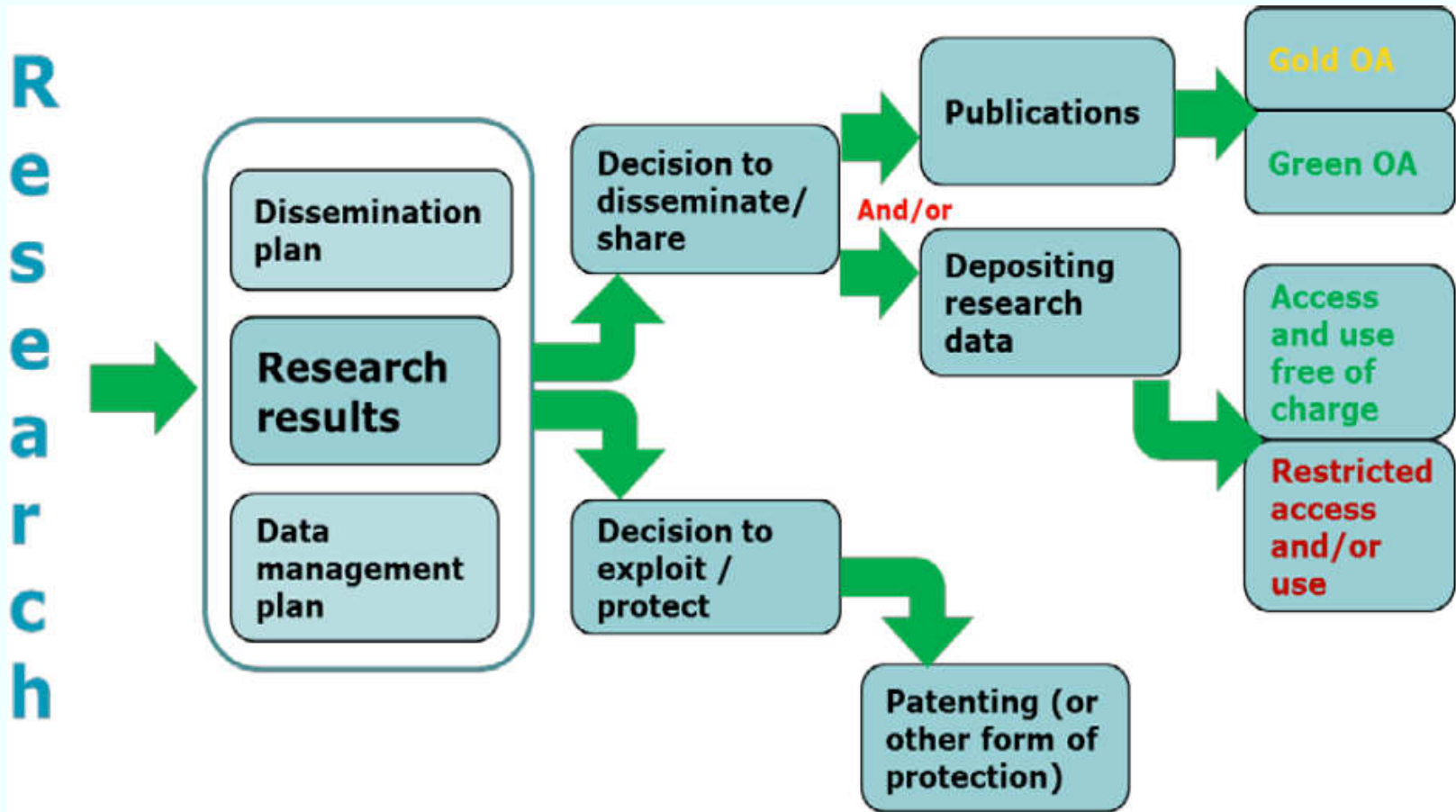
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Effect of Annealing Time on Structure of $\text{Fe}_{72.5}\text{Cu}_1\text{Nb}_2\text{Mo}_2\text{Si}_{15.5}\text{B}_7$ Alloy
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Fine structure of phases of ϵ -family in $\text{Al}_{73.8}\text{Pd}_{11.9}\text{Co}_{14.3}$ alloy
Journal of alloys and compounds 609, 73 - 79 (2014) [10.1016/j.jallcom.2014.04.044] LIBRARIES PDF >>

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Kolesár, V. ; Priputen, P. ; Bednarčík, J. ; Černíčková, I. ; Svoboda, M. ; Drienovský, M. ; Janovec, J.
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The structure of nano-palladium deposited on carbon-based supports
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Bonding and elastic properties of amorphous AlYB_{14}
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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.; Behrens, C.
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Khachatryan, V.; Sirunyan, A. M.; Tumanyan, A.; Adam, W.; Bergauer, T.; Dragicevic, M.; Erö, J.; Fabjan, C.; Friedl, M.; Frühwirth, R.; Ghete, V. M.; Hartl, C.; Hörmann, N.; Hrubec, J.; Jeitler, M.; Kiesenhofer, W.; Knünz, V.; Krammer, M.; Kratschmer, I.; Liko, D.; Mikulec, I.; Rabady, D.; Rahbaran, B.; Rohringer, H.; Schöfbeck, R.; Strauss, J.; Tausk, A.; Treberer-Treberspurg, W.; Waltenberger, W.; Wulz, C.-E.; Mossolov, V.; Shumeiko, 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.; 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.; Ghete, V. M.; Hartl, C.; Hörmann, N.; Hrubec, J.; Jeitler, M.; Kiesenhofer, W.; Knünz, V.; Krammer, M.; Kratschmer, I.; Liko, D.; Mikulec, I.; Rabady, D.; Rahbaran, B.; Rohringer, H.; Schöfbeck, R.; Strauss, J.; Tausk, A.; Treberer-Treberspurg, W.; Waltenberger, W.; Wulz, C.-E.; Mossolov, V.; Shumeiko, 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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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

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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

Received 7 June 2012; published 10 September 2012

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 `xatom` 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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URL: <http://link.aps.org/doi/10.1103/PhysRevA.86.033411>

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Journal * Physical review / A

DOI 10.1103/PhysRevA.86.033411

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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] 

Please use doi:10.1016/j.nima.2014.09.039 in citations.

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):

Appears in the scientific report 2014

Database coverage:

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Nuclear Instruments & methods in physics research / A 768, 20 - 25 (2014) [10.1016/j.nima.2014.09.039] 

Journal Article/Internal Report 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

North-Holland Publ. Co. Amsterdam

Nuclear Instruments & methods in physics research / A 768, 20 - 25 (2014)
[10.1016/j.nima.2014.09.039] 

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Report No.: PUBDB-2014-03854, 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.

Contributing Institute(s):

1. Beschleunigerphysik (MPY)

Research Program(s):

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

Experiment(s):

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Thiele, R. (Corresponding Author)*

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Contributing Institute(s):

1. Bibliothek und Dokumentation (L)

Research Program(s):

1. No facility / HGF program None (POF2-890) (POF2-890)

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