

Heinrich Schwoerer

Publications, talks, teaching and awards

Diploma thesis

„Dynamik von Tunnelsystemen in KBr:KCN-Mischkristallen, Dielektrische Dispersion und Rotationsechos (dynamics of tunneling systems in KBr:KCN-mixed crystals, dielectric dispersion and rotational echoes)“, Ruprecht-Karls-Universität Heidelberg, 1991.

Phd thesis

„Spektrale Lochbrennmaterialien als hochauflösende lineare Amplituden- und Phasenfilter für ultrakurze Laserpulse (spectral hole burning media as high resolution amplitude and phase filters for ultrashort laser pulses)“, Dissertation ETH Nr. 10933, Eidgenössische Technische Hochschule Zürich, 1994.

Habilitation

„Physik in ultrakurzen und ultraintensiven Feldern (physics in ultrashort and ultraintense fields)“, Friedrich-Schiller-Universität Jena, 2002.

book

H. Schwoerer, J. Magill, B. Beileites (eds.); „Lasers and Nuclei - Application of Ultrahigh Intensity Lasers in Nuclear Science“, Lecture Notes in Physics **694**, Springer, Heidelberg 2006.

journal publications

H. Schwoerer, K. v. Eschwege, G. Bosman, P. Krok, J. Conradie,
„Ultrafast Photochemistry of Dithizonatophenylmercury(II)“,
ChemPhysChem, DOI: 10.1002/cphc.201100337 (2011).

A. Heidt, A. Hartung, G. Bosman, P. Krok, E. Rohwer, H. Schwoerer, H. Bartelt,
„Coherent octave spanning near-infrared and visible supercontinuum generation in all-normal dispersion photonic crystal fibers“,
Optics Express **19**, 3775-3787 (2011).

O. Jäckel, J. Polz, S. Pfotenhauer, H.-P. Schlenvoigt, H. Schwoerer, M. Kaluza,
„All-optical measurement of the hot electron sheath driving laser ion acceleration from thin foils“,
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G. Kassier, K. Haupt, N. Erasmus, E. Rohwer, H. von Bergmann, and H. Schwoerer, M. M. Coelho and F. D. Auret,
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A. Lübcke, F. Zamponi, R. Loetzsch, T.Kämpfer, I. Uschmann, V. Große, F. Schmidl, T.Köttig, M. Thürk, H. Schwoerer, E. Förster, P. Seidel, R. Sauerbrey,
„Ultrafast structural changes in SrTiO₃ due to superconducting phase transition in an YBa₂Cu₃O₇ top layer“,
New Journal of Physics **12**, 083043 1-11 (2010).

M. Kaluza, H.-P. Schlenvoigt, S. Mangles, A. Thomas, A. Dangor, H. Schwoerer, W. Mori, Z. Najmudin, and K. M. Krushelnick,
„Measurement of Magnetic-Field Structures in a Laser-Wakefield Accelerator“,
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- G. Kassier, K. Haupt, N. Erasmus, E. Rohwer, H. Schwoerer,
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 Journal of Applied Physics **105**, 113111 (2009).
- J. Gallacher, M. Anania, E. Brunetti, F. Budde, A. Debus, B. Ersfeld, K. Haupt, M. Islam, O. Jäckel,
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 „*A method of determining narrow energy spread electron beams from a laser plasma wakefield accelerator
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 Physics of Plasmas **16**, 043105 (2009).
- H. Schwoerer,
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- H. Schwoerer,
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