

Selected publications, as of September 2016

Overview articles on electron sources

Summary of WG1 on Injectors – ERL 2015,

A. Bartnik, T. Kamps, Proc. of ERL 2015, Stony Brook, USA, 2015

Electron sources for future lightsources, summary and conclusions for the activities during FLS 2012

T. Kamps, C. Hernandez-Garcia, et al., arXiv: 1307.1571v2 [physics.acc-ph], July 26, 2013

SRF gun project for BERLinPro

SRF Gun Development for Energy Recovery Linac Applications,

T. Kamps, OSA Technical Digest, 2016, DOI:10.1364/EUVXRAY.2016.ET1A.3

Introducing GunLab – a compact test facility for SRF photoinjectors

J. Voelker (J. Völker), R. Barday, A. Jankowiak, T. Kamps, J. Rudolph, S.G. Schubert, S. Wesch [HZB, Berlin, Germany] A. Ferrarotto, T. Weis [DELTA, Dortmund, Germany] V.I. Shvedunov [MSU, Moscow, Russia] I.Yu. Vladimirov [MSU SINP, Moscow, Russia], Proceedings of the 5th IPAC, Dresden, Germany, 2014

Spectrometer for SRF gun

I.Yu. Vladimirov, V.I. Shvedunov [MSU, Moscow, Russia] T. Kamps, J. Voelker [HZB, Berlin, Germany], Proceedings of the 5th IPAC, Dresden, Germany, 2014, Moscow University Physics Bulletin, Volume 71, Issue 1 (2016), page 81

Beam dynamic studies for SRF photoinjectors

T. Kamps, A. Neumann, J. Völker, HZB, Berlin, Germany, Proceedings of LINAC 2012, Tel Aviv, Israel, 2012

Results from beam commissioning of a plug-gun cavity photoinjector

M. Schmeißer, R. Barday, A. Burrill, A. Jankowiak, T. Kamps, J. Knobloch, O. Kugeler, P. Lauinger, A. N. Matveenko, A. Neumann, J. Völker, HZB, Germany J. Sekutowicz, DESY, Germany; P. Kneisel, JLab, USA; J. Smedley, BNL, USA R. Nietubyc, NCBJ, Poland; I. Will, MBI, Germany, Proceedings of the 4th IPAC, Shanghai, China, 2013

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T. Kamps, W. Anders, R. Barday, A. Jankowiak, J. Knobloch, O. Kugeler, A.N. Matveenko, A. Neumann, T. Quast, J. Rudolph, S.G. Schubert, J. Voelker (J. Völker) [HZB, Berlin, Germany] P. Kneisel [JLAB, Newport News, Virginia, USA] R. Nietubyc (R. Nietubyc) [The Andrzej Soltan Institute for Nuclear Studies, Centre Swierk, Swierk/Otwock, Poland] J.K. Sekutowicz [DESY, Hamburg, Germany] J. Smedley [BNL, Upton, Long Island, New York, USA] J. Teichert [HZDR, Dresden, Germany] V. Volkov [BINP SB RAS, Novosibirsk, Russia] I. Will [MBI, Berlin, Germany], Proceedings of the 3rd IPAC, New Orleans, USA, 2012

First demonstration of electron beam generation and characterization with an all superconducting radio-frequency (SRF) photoinjector,

T. Kamps, W. Anders, R. Barday, A. Jankowiak, J. Knobloch, O. Kugeler, A. N. Matveenko, A. Neumann, T. Quast, J. Rudolph, S. G. Schubert, J. Voelker (HZB, Berlin), V. Volkov (BINP SB RAS, Novosibirsk), J. Smedley (BNL, Upton, Long Island, New York), J. Sekutowicz (DESY, Hamburg), G.

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T. Kamps, W. Anders, A. Frahm, J. Knobloch, O. Kugeler, A. Neumann, M. Dirsat, T. Quast, M. Schenk, M. Schuster (Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Elektronen-Speicherring BESSY II, Berlin), P. Kneisel (JLAB, Newport News), R. Nietubyc (The Andrzej Soltan Institute for Nuclear Studies, Swierk/Otwock), T. Rao, J. Smedley (BNL, Upton), J. Sekutowicz (DESY, Hamburg), J. Teichert (FZD, Dresden), I. Will (MBI, Berlin), Proceedings of the SRF 2009 Workshop, Berlin, Germany, 20-25 September 2009.

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R. Barday, S. Lagotzky, T. Kamps, et al.,

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R. Barday, et al., Proceedings of the 5th IPAC, Dresden, Germany, 2014

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S. Schubert, M. Ruiz-Osés, I. Ben-Zvi, T. Kamps, X. Liang, E. Muller, K. Müller, H. Padmore, T. Rao, X. Tong, T. Vecchione, and J. Smedley, BNL, LBNL, SLAC, HZB
APL Materials 1, 032119 (2013); doi: 10.1063/1.4821625

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R. Barday, T. Kamps, et al.,

Physical Review Special Topics - Accelerators and Beams 16, 123402 (2013)

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S. Schubert, R. Barday, T. Kamps, T. Quast, F. Siewert, A. Varykhalov, HZB, Berlin, Germany R. Nietubyc, NCBJ, Swierk, Poland, J. Smedley, BNL, Upton, USA, G. Weinberg, FHI, Berlin, Germany
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BESSY FEL and STARS

STARS - A two-stage high-gain harmonic generation FEL demonstrator

T. Kamps, M. Abo-Bakr, W. Anders, J. Bahrtdt, P. Budz, K. Buerkmann-Gehrlein, O. Dressler, H. Duerr, V. Duerr, W. Eberhardt, S. Eisebitt, J. Feikes, R. Follath, A. Gaupp, R. Goergen, K. Goldammer, S. Hessler, K. Hollmack, E. Jaeschke, S. Klauke, J. Knobloch, O. Kugeler, B. Kuske, P. Kuske, A. Meseck, R. Mitzner, R. Mueller, M. Neeb, A. Neumann, K. Ott, D. Pfluckhahn, T. Quast, M. Scheer, T. Schroeter, M. Schuster, F. Senf, G. Wuestefeld (BESSY, Berlin), D. Kraemer (GSI, Darmstadt), F. Marhauser (JLAB, Newport News). Prepared for Particle Accelerator Conference (PAC 07), Albuquerque, New Mexico, 25-29 June 2007. Published in *Albuquerque 2007, Particle accelerator* 938-940.

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T. Kamps (BESSY, Berlin). Aug 2004. 4pp. Prepared for 26th International Free Electron Laser Conference and 11th FEL User Workshop, Trieste, Italy, 29 Aug - 3 Sep 2004. Published in *Trieste 2004, FEL* 381-384

The Bessy Soft X-Ray Free Electron Laser

Editors: D. Krämer, E. Jaeschke, W. Eberhardt (BESSY, Berlin), ISBN 3-9809534-0-8 (2004).

Diagnostics for the SRF injector project at ELBE/HZDR

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The ELBE accelerator starts operation with the superconducting RF gun

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Laser wire scanner Compton scattering techniques for the measurement of the transverse Beam Size of particle beams at future linear colliders

T. Kamps, et al., arXiv:1412.3004 [physics.acc-ph], Dec 9, 2014

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TTF FEL and Waveguide BPM

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U. Hahn (DESY), T. Kamps (Royal Holloway, U. of London), R. Lorenz, W. Riesch, H.J. Schreiber, F. Tonisch (DESY, Zeuthen). DESY-TESLA-FEL-2003-04, Aug 2003. 22pp. Published in Nucl.Instrum.Meth.A527:240-252, 2004.

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