

# Beschleuniger

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### Veröffentlichungen

- A. AGABABYAN ET AL.  
The Accelerator Control System at DESY.  
ICFA Beam Dynamics Newsletter 47 (2008) 42
- G.V. ANGELOVA ET AL.  
Observation of Two-Dimensional Longitudinal-Transverse Correlations in an Electron Beam by Laser-Electron Interactions.  
Phys. Rev. STAB 11 (2008) 5  
<http://dx.doi.org/10.1103/PhysRevSTAB.11.070702>
- K. BALEWSKI, R. WANZENBERG, O. ZAGORODNOVA  
The Impedance Model of PETRA III.  
ICFA Beam Dynamics Newsletter 45 (2008) 114
- A.K. BANDYOPADHYAY, A. JÖSTINGMEIER, A.S. OMAR, R. WANZENBERG  
Wake Computations for Selected Components of PETRA III.  
ICFA Beam Dynamics Newsletter 45 (2008) 147
- A. BOSCO ET AL.  
A two-dimensional laser-wire scanner for electron accelerators.  
Nucl. Instrum. Methods A 592 (2008) 162  
<http://dx.doi.org/10.1016/j.nima.2008.04.012>
- S. CASALBUONI, H. SCHLARB, B. SCHMIDT, P. SCHMÜSER, B. STEFFEN, A. WINTER  
Numerical Studies on the Electro-Optic Detection of Femtosecond Electron Bunches.  
Phys. Rev. STAB 11 (2008) 072802  
<http://dx.doi.org/10.1103/PhysRevSTAB.11.072802>
- E. CHIADRONI, M. CASTELLANO, A. CIANCHI, K. HONKAVAARA, G. KUBE, V. MERLO, F. STELLA  
Non-intercepting Electron Beam Transverse Diagnostics with Optical Diffraction Radiation at the DESY FLASH Facility.  
Nucl. Instrum. Methods B 266 (2008) 3789
- A. ERMAKOV, I. JELEZOV, X. SINGER, W. SINGER, G.B. VISWANATHAN, V. LEVIT, H.L. FRASER, H. WEN, M. SPIWEK  
Physical Properties and Structure of Large Grain/Single Crystal Niobium for Superconducting RF Cavities.  
J. Phys., Conf. Ser. 97 (2008) 1  
<http://dx.doi.org/10.1088/1742-6596/97/1/012014>
- G. GELONI, E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV  
A Simple Method for Timing an XFEL Source to High-power Lasers.  
Opt. Commun. 281 (2008) 3762  
<http://dx.doi.org/10.1016/j.optcom.2008.03.023>
- Transverse Coherence Properties of X-ray Beams in Third-generation Synchrotron Radiation Sources.  
Nucl. Instrum. Methods A 588 (2008) 463  
<http://dx.doi.org/10.1016/j.nima.2008.01.089>
- Scheme for Stabilization of Output Power of an X-ray Self-amplified Spontaneous Emission Free-electron Laser.  
Phys. Rev. STAB 11 (2008) 120701  
<http://dx.doi.org/10.1103/PhysRevSTAB.11.120701>
- E. GJONAJ, T. LAU, T. WEILAND, R. WANZENBERG  
Computation of Short Range Wake Field with PBCI.  
ICFA Beam Dynamics Newsletter 45 (2008) 38
- J.-H. HAN, K. FLÖTTMANN, W. HARTUNG  
Single-side Electron Multipacting at the Photocathode in Rf Guns.  
Phys. Rev. STAB 11 (2008) 013501  
<http://dx.doi.org/10.1103/PhysRevSTAB.11.013501>
- Y. INOUE ET AL.  
Development of a High-Resolution Cavity-Beam Position Monitor.  
Phys. Rev. STAB 11 (2008) 062801
- M. IVANYAN, E. LAZIEV, V. TSAKANOV, A. VARDANYAN, A. TSAKANIAN, R. WANZENBERG  
PETRA III Storage Ring Resistive Wall Impedance.  
ICFA Beam Dynamics Newsletter 45 (2008) 125
- T. KAMPS ET AL.  
Electron Beam Diagnostics for a Superconducting Radio Frequency Photoelectron Injector.  
Rev. Sci. Instrum. 79 (2008) 093301
- D. KÜCHLER, T. MEINSCHAD, J. PETERS  
A Radio Frequency Driven H- Source for Linac4.  
Rev. Sci. Instrum. 79 (2008) 02A504  
<http://dx.doi.org/10.1063/1.2801382>
- G. MOORTGAT-PICK ET AL.  
Polarized Positrons and Electrons at the Linear Collider.  
Physics Reports 460 (2008) 243  
<http://dx.doi.org/10.1016/j.physrep.2007.12.010>
- B. MUKHERJEE, W. CLEMENT, S. SIMROCK  
Neutron Field Characterisation in a High-energy Proton-synchrotron Environment Using Bubble Detectors.  
Radiation Measurements 43 (2008) 554  
<http://dx.doi.org/10.1016/j.radmeas.2007.12.010>
- A.P. POTYLITSYN, D.V. KARLOVETS, G. KUBE  
Resonant Diffraction Radiation from Inclined Gratings and Bunch Length Measurements.  
Nucl. Instrum. Methods B 266 (2008) 3781
- E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV  
Output Power and Degree of Transverse Coherence of X-ray Free Electron Lasers.  
Opt. Commun. 281 (2008) 4727  
<http://dx.doi.org/10.1016/j.optcom.2008.05.033>
- C. SIMON, M. LUONG, S. CHEL, O. NAPOLY, J. NOVO, D. ROUDIER, N. ROUVIERE, N. BABOI, N. MILDNER, D. NOELLE  
Performance of a Reentrant Cavity Beam Position Monitor.  
Phys. Rev. STAB 11 (2008) 082802
- V. SMALUK, R. WANZENBERG  
Geometrical Impedance of the PETRA III Damping Wiggler Section.  
ICFA Beam Dynamics Newsletter 45 (2008) 139
- J. SMEDLEY, T. RAO, J. SEKUTOWICZ  
Lead Photocathodes.  
Phys. Rev. STAB 11 (2008) 013502

**Preprints und Interne Berichte**

D.P. BARBER, L.I. MALYSHEVA  
The Invariant Polarisation-tensor Field for Spin-1 Particles in Storage Rings I: Mathematical Foundations.  
Cockcroft 08-01

L. BELLANTONI, H. EDWARDS, R. WANZENBERG  
Calculation of Asymptotic and RMS Kicks due to Higher Order Modes in the 3.9 GHz Cavity.  
DESY M 08-01

S. BELOMESTNYKH, V. SHEMELIN  
Multipacting-Free Transitions between Cavities And Beam-Pipes.  
TESLA 2008-04

G. CIOVATI ET AL.  
Final Surface Preparation for Superconducting Cavities - An Attempt to Describe an Optimized Procedure.  
TTC 2008-05

Z.A. CONWAY, D.L. HARTILL, H.S. PADAMSEE, E.N. SMITH  
Oscillating Superleak Transducers for Quench Detection in Superconducting ILC Cavities Cooled with HE-II.  
TTC 2008-06

M. DOHLUS, I. ZAGORODNOV  
Explicit TE/TM Scheme for Particle Beam Simulations.  
DESY 08-146; arXiv:0901.1053

K. FLOETTMANN, F. STEPHAN, V. PARAMONOV,  
A. SKASYRSKAYA  
RF Gun Cavities Cooling Regime Study.  
TESLA-FEL 2008-02

G. GELONI, V. KOCHARYAN, E.L. SALDIN,  
E.A. SCHNEIDMILLER, M.V. YURKOV  
Theory of Edge Radiation.  
DESY 08-118

O. GRIMM  
Synchrotron Radiation for Beam Diagnostics: Numerical Calculations of the Single Electron Spectrum.  
TESLA-FEL 2008-05

M. HOFFMANN  
Digital Signal Processing Mathematics.  
CERN-2008-003

G. KUBE  
Imaging with Optical Transition Radiation Transverse Beam Diagnostics for the XFEL.  
TESLA-FEL 2008-01

A. LABANC  
Electrical Axes of TESLA-type Cavities.  
TESLA 2008-01

D. LIPKA, D. NÖLLE, K. WITTENBURG  
Dark Current Monitors for X-FEL at 1.3 GHz.  
Technical Note 2008-01

B. MUKHERJEE, E. NEGODIN, T. HOTT, S. SIMROCK  
Efficacy Testing of Shielding Materials for XFEL Using the Radiation Fields Produced at FLASH.  
TESLA-FEL 2008-06

K. MÜLLER, J. HANNEMANN  
Ein halbleiterbasierter 2MHz-Sender für die  $H^-$ -Quelle.  
Technical Note 2008-02

H. PADAMSEE, V. SHEMELIN  
Magnetic Field Enhancement at Pits and Bumps on the Surface of Superconducting Cavities.  
TTC-Report 2008-07

J. WIENER, H. PADAMSEE  
Improvements in Field Emission: An Updated Statistical Model for Electropolished Baked Cavities.  
TESLA 2008-02

Thermal and Statistical Models for Quench in Superconducting Cavities.  
TTC-Report 2008-08

**Veröffentlichte Vorträge****Proc. of EPAC'08, Genoa/IT (06/2008)**

JACoW (2008)

V. ARSOV ET AL.  
Electro-optic Bunch Arrival Time Measurement at FLASH.  
JACoW (2008) 3348 and THPC152

K.L.F. BANE ET AL.  
Wakefield and RF Kicks due to Coupler Asymmetry in TESLA-type Accelerating Cavities.  
JACoW (2008) 1571

E. CHIADRONI, M. CASTELLANO, K. HONKAVAARA, G. KUBE,  
A. CIANCHI  
New Experimental Results with Optical Diffraction Radiation Diagnostics.  
JACoW (2008) 1083

M. DOHLUS, I. ZAGORODNOV, M. KRASILNIKOV, E. GJONAJ,  
S. SCHNEPP  
Transverse Effects due to Vacuum Mirror of RF Gun.  
JACoW (2008) 1615

M. DOHLUS, I. ZAGORODNOV, E. GJONAJ, T. WEILAND  
Coupler Kick for Very Short Bunches and its Compensation.  
JACoW (2008) 582

G. GELONI, E.L. SALDIN, E.A. SCHNEIDMILLER,  
M.V. YURKOV  
A Simple Method for Timing an XFEL Source to High-power Lasers.  
JACoW (2008) 3357

A Scheme for Stabilization of Output Power of an X-ray SASE FEL.  
JACoW (2008) 1947

T. KAMPS ET AL.  
Setup and Commissioning of the Diagnostics Beamline for the SRF Photoinjector Project at Rossendorf.  
JACoW (2008) 1158

R. KAZIMI ET AL.  
Observation and Mitigation of Multipass BBU in CEBAF.  
JACoW (2008) 2722

P. KNEISEL, G. CIOVATI, W. SINGER, X. SINGER,  
D. RESCHKE, A. BRINKMANN  
Performance of Single Crystal Niobium Cavities.  
JACoW (2008) 877

- G. KUBE ET AL.  
Overview of the Diagnostic Systems of PETRA III.  
JACoW (2008) 1323
- P. KUSKE ET AL.  
Preparations of BESSY for Top Up Operation.  
JACoW (2008) 2067
- S. LEDERER, S. SCHREIBER, P.M. MICHELATO, L. MONACO,  
C. PAGANIA, D. SERTORE, J.H. HAN  
Photocathode Studies at FLASH.  
JACoW (2008) 232
- Y. LI, B. FAATZ, J. PFLUEGER, E.L. SALDIN,  
E.A. SCHNEIDMILLER, M.V. YURKOV  
Study of Controllable Polarization SASE FEL by a Crossed-planar  
Undulator.  
JACoW (2008) 2282
- F. LÖHL ET AL.  
Experimental Determination of the Timing Stability of the Optical  
Synchronization System at FLASH.  
JACoW (2008) 1386 and TUPC135
- Measurement and Stabilization of the Bunch Arrival Time at  
FLASH.  
JACoW (2008) 3360 and THPC158
- P. MICHELATO, L. MONACO, C. PAGANI, D. SERTORE,  
F. STEPHAN, S. LEDERER, S. SCHREIBER  
Cs<sub>2</sub>Te Photocathode Robustness Studies.  
JACoW (2008) 241
- V. MILTCHEV ET AL.  
Experimental Layout of 30 nm High Harmonic Laser Seeding at  
FLASH.  
JACoW (2008) 127 and MOPC028
- B. PETERSEN  
Industrialization of Superconducting Accelerator Module  
Production.  
JACoW (2008) 1964
- P.-J. PHILLIPS ET AL.  
Single-shot Longitudinal Bunch Profile Measurements at FLASH  
Using Electro-optic Detection Techniques.  
JACoW (2008) 1242 and TUPC081
- S. RIMJAEMY ET AL.  
Tuning and Conditioning of a New High Gradient Gun Cavity at  
PITZ.  
JACoW (2008) 244
- B. SCHMIDT, C. BEHRENS, H. DELSIM-HASHEMI,  
P. SCHMÜSER, S. WESCH  
Longitudinal Structure of Electron Bunches at the Micrometer  
Scale from Spectroscopy of Coherent Transition Radiation.  
JACoW (2008) 130 and MOPC029
- S. SCHREIBER, B. FAATZ, K. HONKAVAARA  
Operation of FLASH at 6.5 nm Wavelength.  
JACoW (2008) 133
- S. SCHULZ ET AL.  
An Optical Cross-correlation Scheme to Synchronize Distributed  
Laser Systems at FLASH.  
JACoW (2008) 3366 and THPC160
- D. SERTORE, P.M. MICHELATO, L. MONACO, C. PAGANI,  
S. LEDERER, S. SCHREIBER, F. STEPHAN  
Cs<sub>2</sub>Te Photocathode Robustness Studies.  
JACoW (2008) 241
- A. TSAKANIAN, M. DOHLUS, I. ZAGORODNOV  
Numerical Studies of Resistive Wall Effects.  
JACoW (2008) 1709
- M. VOGT, T. LIMBERG, D. KUK  
Simulation of Micro Bunching Instability Regimes in the FLASH  
Bunch Compressors.  
JACoW (2008) 3236
- V. ZIEMANN ET AL.  
Results from the Optical Replica Experiments in FLASH.  
JACoW (2008) 1332 and TUPC114
- Proc. of FEL'07, Novosibirsk/RU (08/2007)**  
JACoW (2008)
- K. HONKAVAARA, F. LÖHL, E. PRAT  
Measurements of Projected Emittances at FLASH.  
JACoW (2008) 338 and WEPH008
- H. SCHLARB  
FLASH Upgraded - Preparing for the European XFEL.  
JACoW (2008) 211 and TUBAU01
- B. STEFFEN ET AL.  
Single-Shot Longitudinal Bunch Profile Measurements at FLASH  
Using Electro-Optic Detection: Experiment, Simulation and  
Validation.  
JACoW (2008) 310 and WEBAU04
- V. ZIEMANN ET AL.  
The Optical Replica Synthesizer in Flash.  
JACoW (2008) 438 and WEPH039
- Proc. of PCaPAC 2008, Ljubljana/SI (10/2008)**  
JACoW (2008)
- R. BACHER  
Commissioning of the New Pre-Accelerator Control Systems at  
DESY.  
JACoW (2008) 171
- R. BACHER, P. DUVAL, M. LOMPERSKI, J. BOBNAR,  
I. KRIZNAR  
New TINE Java General Purpose Diagnostic Applications.  
JACoW (2008) 67
- R. BACHER  
The Web2cToolkit: A Framework for Thin Ajaxian Control  
System Clients.  
JACoW (2008) 140
- P. DUVAL, P. BARTKIEWICZ, S. HERB, H.G. WU, S. WEISSE  
TINE Release 4 in Operation.  
JACoW (2008) 1
- P. DUVAL, H.G. WU, U. RISTAU  
The TINE Common Device Interface in Operation.  
JACoW (2008) 154

P. DUVAL, U. RISTAU, M. DICASTRO, S. FIEDLER, A. PAZOS  
The Concept of EMBL Beamline Control at Petra III.  
JACoW (2008) 22

O. HENSLER, G. PETROSYAN, L. PETROSYAN, V. PETROSYAN,  
K. REHLICH, P. VETROV  
Using the Advanced Telecom Computing Architecture xTCA as  
Crate Standard for XFEL.  
JACoW (2008) 162

V. RYBNIKOV, A. AGHABABYAN, G. GRYGIEL, O. HENSLER,  
R. KAMMERING, L.M. PETROSYAN, K. REHLICH  
Buffer Manager Implementation for the FLASH Data Acquisition  
System.  
JACoW (2008) 102 and TUP010

E. SOMBROWSKI, K. REHLICH  
First Experiences with jddd for PETRA Vacuum Controls.  
JACoW (2008) 74

J. WILGEN  
First Experiences with a Device Server Generator for Server  
Applications for PETRA III.  
JACoW (2008) 108

#### Weitere veröffentlichte Vorträge

A. AGABABYAN ET AL.  
The Data Acquisition System (DAQ) of the FLASH Facility.  
Proc. of ICALEPCS 2007, Knoxville, Tennessee/USA (10/2007)  
JACoW (2008) 564

D.P. BARBER  
Stern-Gerlach Forces and Spin Splitters.  
Proc. of Polarized Antiproton Beams - How?, Warrington/UK  
(08/2008)  
AIP (2008)

Spin Dynamics and Simulation of Spin Motion in Storage Rings.  
Proc. of Polarized Antiproton Beams - How?, Warrington/UK  
(08/2008)  
AIP (2008)

R. BÖSPFLUG ET AL.  
Vacuum System Design of the Third Generation Synchrotron  
Radiation Source PETRA III.  
Proc. of IVC 17, Stockholm/SE (07/2007)  
J. Phys., Conf. Ser. 100 (2008) 092012  
<http://dx.doi.org/10.1088/1742-6596/100/9/092012>

G. GRYGIEL, V. RYBNIKOV  
DOOCS Camera System.  
Proc. of ICALEPCS 2007, Knoxville, Tennessee/USA (10/2007)  
JACoW (2008) 359

K. HONKAVAARA, B. FAATZ, S. SCHREIBER  
Status of FLASH.  
Proc. of FEL 2008, Gyeongju/KR (08/2008)  
JACoW (2008) 4

A. KLETT, A. LEUSCHNER  
A Pulsed Neutron Dose Monitor.  
Proc. of 2007 IEEE NSS/MIC, Honolulu/USA (10/2007)  
IEEE (2008)

S. SCHREIBER, S. LEDERER, P.M. MICHELATO, L. MONACO,  
D. SERTORE, F. STEPHAN, J.H. HAN  
Cathode Issues at the FLASH Photoinjector.  
Proc. of FEL 2008, Gyeongju/KR (08/2008)  
JACoW (2008) 4

K. ZAPFE ET AL.  
The Vacuum System of the European X-ray Free Electron Laser  
XFEL.  
Proc. of IVC 17, Stockholm/SE (07/2007)  
J. Phys., Conf. Ser. 100 (2008) 092001  
<http://dx.doi.org/10.1088/1742-6596/100/9/092001>

K. ZAPFE  
Accelerator Vacuum Systems at DESY.  
Proc. of IVS 2007, Mumbai/IN (11/2007)  
J. Phys., Conf. Ser. 114 (2008) 012003

#### Vorträge

##### Beschleuniger-Betriebsseminar 2008, Groemitz/DE (11/2008)

R. BACHER  
Kontrollsystem für PETRA III und Vorbeschleuniger.

R. KAMMERING  
FLASH Kontrollen.

S. SCHREIBER  
Status FLASH.

##### LINAC08, Victoria/CA (09/2008)

A. BRINKMANN, W. SINGER  
Nondestructive Testing of Niobium Sheets for SRF Cavities Using  
Eddy-current and SQUID Flaw Detection.

K. HONKAVAARA  
Operation of FLASH as an FEL User Facility.

M. HÜNING, M. SCHMITZ  
Recent Changes to the  $e^-/e^+$  Injector (Linac II) at DESY.

P. PIERINI ET AL.  
Third Harmonic Superconducting Cavity Prototypes for the XFEL.

W. SINGER, I. JELEZOV, X. SINGER, A. MATHEISEN,  
P. KNEISEL, G. CIOVATI, M. MORRONE  
Preliminary Results from Multi-cell Seamless Niobium Cavities  
Fabricated by Hydroforming.

##### FEL 2008, Gyeongju/KR (08/2008)

A. AZIMA ET AL.  
Tolerance Studies on the High Harmonic Laser Seeding at FLASH.

K. HONKAVAARA  
Status of FLASH.

S. KHAN ET AL.  
Results from the Optical Replica Experiments in FLASH.

sFLASH: An Experiment for Seeding VUV Radiation at FLASH.

F. LÖHL ET AL.  
Observation of 40 fs Synchronization of Electron Bunches for FELs.

J. ROENSCH ET AL.  
First Measurement Results from the Upgraded Low Energy Longitudinal Phase Space Diagnostics at PITZ.

M. RÖHRS, C. GERTH  
Electron Beam Diagnostics with Transverse Deflecting Structures at the European X-Ray Free Electron Laser.

B. SCHMIDT, C. BEHRENS, H. DELSIM-HASHEMI, P. SCHMÜSER, S. WESCH  
Coherent Micro-Bunching Radiation from Electron Bunches at FLASH in the 10 Micrometer Wavelength Range.

S. SCHREIBER  
Cathode Issues at the FLASH Photoinjector.

A. WINTER ET AL.  
Conceptual Design of the Synchronization System for the European XFEL.

J. ZEMELLA ET AL.  
Drift-Free, Cost-Effective Detection Principle to Measure the Timing Overlap Between Two Optical Pulse Trains.

#### LINAC08, Victoria/CA (09/2008)

A. BRINKMANN, W. SINGER  
Nondestructive Testing Of Niobium Sheets For SRF Cavities Using Eddy-Current and Squid Flaw Detection.

A. BRINKMANN, D. RESCHKE, J. ZIEGLER  
Various Applications of Dry-Ice Cleaning in the Field of Accelerator Components at DESY.

S. CHOROBA, F. EINTS, T. FROELICH, A. GAMP, T. GREVSMÜHL, V. KATALEV  
Operation Experience with the FLASH RF Waveguide Distribution System at DESY.

Z. GENG, S.N. SIMROCK  
Evaluation of Fast ADCs for Direct Sampling RF Field Detection for the European XFEL and ILC.

K. HONKAVAARA  
Operation of FLASH as a User Facility.

L. LILJE, D. RESCHKE  
Recent Results on 1.3 GHz Nine-Cell Superconducting Cavities for the European XFEL.

D. RESCHKE, J. ZIEGLER  
Open 120°C Bake in Argon Atmosphere: A Simplified Approach for Q-Drop Removal.

D. RESCHKE  
Analysis of Quenches Using Temperature Mapping in 1.3 GHz SCRF Cavities at DESY.

J. SEKUTOWICZ, P. KNEISEL, L. XIAO  
Coaxial Coupling Scheme for Fundamental and Higher Order Modes in Superconducting Cavities.

S.N. SIMROCK, G. AYVAZIAN, Z. GENG, M. GRECKI  
LLRF System Requirement Engineering for the European XFEL.

E. VOGEL ET AL.  
Status of the 3rd Harmonic Systems for FLASH and XFEL in Summer 2008.

#### Weitere Vorträge

K. BALEWSKI ET AL.  
The Beam Diagnostic Instrumentation of PETRA III. BIW08, Lake Tahoe, California/USA (05/2008)

D.P. BARBER  
DESY-Cockcroft Computer Algorithms for Estimating Depolarisation in the DR, Linac & BDS in the ILC. Mini-workshop: Models of Polarisation at Linear Colliders, Daresbury/UK (03/2008)

Electron/positron Polarisation?  
1st ECFA-CERN LHeC Workshop, Divonne/FR (09/2008)

D.P. BARBER, M. VOGT  
The Invariant Polarisation-tensor Field for Spin-1 Particles in Storage Rings. 18th International Spin Physics Symposium, Charlottesville, Virginia/USA (10/2008)

D.P. BARBER  
Spin-orbit Tracking Simulations and Spin Resonance Strengths for Deuterons in COSY. Institute for Nuclear Physics (IKP), Forschungszentrum Jülich, Jülich/DE (12/2008)

C. BEHRENS, H. DELSIM-HASHEMI, B. SCHMIDT, S. WESCH  
Messung Kohärenter Synchrotronstrahlung (CSR) am FLASH Linac. DPG Frühjahrstagung, Freiburg/DE (03/2008)

W. BIALOWONS  
Cost Reduction Strategies. TILC08, Sendai/JP (03/2008)

W. BIALOWONS, F. LEHNER  
Process Cooling Water Cost Reduction Strategies. ILC Cost Management Group Workshop, Deutsches Elektronen-Synchrotron DESY, Hamburg/DE (05/2008)

W. BIALOWONS  
Potential International Linear Collider Site at DESY in Hamburg. GDE Meeting - ILC Conventional Facilities and Siting Workshop, Joint Institute for Nuclear Research JINR, Dubna/RU (06/2008)

Process Cooling Water Cost Reduction Strategies. GDE Meeting - ILC Conventional Facilities and Siting Workshop, Joint Institute for Nuclear Research JINR, Dubna/RU (06/2008)

The International Linear Collider. From RDR to TDP. RuPAC 2008, Zvenigorod/RU (09/2008)

T. BOECKMANN, D. HOPPE, K. JENSCH, R. LANGE, W. MASCHMANN, B. PETERSEN, T. SCHNAUTZ  
Experimental Tests of Fault Conditions during the Cryogenic Operation of a XFEL Prototype Cryomodule. ICEC-ICMC 2008, Seoul/KR (07/2008)

Y. BOZHKO, T. BOECKMANN, H. BRUECK, B. PETERSEN, T. SCHNAUTZ, D. SELLMANN, A. ZHIRNOV, A. ZOLOTOV  
Test Stand for Testing XFEL Magnets. ICEC-ICMC 2008, Seoul/KR (07/2008)

I. CHEVIAKOV, L. FRÖHLICH, S. KARSTENSEN, T. LENSCH,  
F. SCHMIDT-FÖHRE, M. STAACK, J. THOMAS, P. VETROV,  
M. WERNER

Machine Protection for the European XFEL.  
DPG-Frühjahrstagung 2008, Freiburg/DE (03/2008)

S. CHORоба

The XFEL RF System at a Glance.  
GeMIC 2008, Hamburg/DE (03/2008)

Pulsed Power Radio Frequency System for the European XFEL at  
DESY.

EAPPC, Vilnius/LT (09/2008)

Multi-Megawatt Hochfrequenzsender für supraleitende  
Linearbeschleuniger: Das HF-System des Europäischen Röntgen  
Freie-Elektronen-Lasers XFEL.

Fakultätskolloquium der Fakultät für Elektrotechnik und  
Informationstechnik der Universität Karlsruhe gemeinsam mit dem  
Forschungszentrum Karlsruhe, Karlsruhe/DE (07/2008)

S. CHORоба ET AL.

XFEL HLRF Status.  
FNAL ILC HLRF Meeting, Batavia/USA (04/2008)

XFEL High Power RF Status.

FNAL ILC HLRF Meeting, Batavia/USA (04/2008)

K. CZUBA, P. PUCYK, M. LADNO

Distributed Monitoring System for the Master Oscillator of the  
FLASH Accelerator.

MIXDES 2008, Poznan/PL (06/2008)

K. CZUBA, H. WEDDIG

Synchronization Systems for High Energy Particle Accelerators.  
MINKON 2008, Wroclaw/PL (05/2008)

M. DEHLER, G.J. BEHRMANN, M. SIEMENS, S. VILCINS

Stripline devices for FLASH und European XFEL.  
BIW08, Lake Tahoe, California/USA (05/2008)

L. FRÖHLICH

Recent Results from FLASH - Lasing at 6.5 nm.  
DPG-Frühjahrstagung 2008, Freiburg/DE (03/2008)

Beam Loss Monitors.

ERL Instrumentation Workshop, Ithaca/USA (06/2008)

Undulator Protection for FLASH and for the European XFEL.

LCLS Undulator Magnet Irradiation Sensitivity Workshop, Menlo  
Park/USA (06/2008)

P. KNEISEL, G. CIOVATI, J. SEKUTOWICZ, L. TURLINGTON

Progress on the Development of a Superconducting Connection for  
Niobium Cavities.

ICSM 2008, Side/TR (08/2008)

D. KOSTIN

XFEL Cryomodule Assembly: RF Measurements and Tuning.  
XFEL String and Cryomodule Assembly Workshop,  
Gif-sur-Yvette/FR (05/2008)

F. LÖHL ET AL.

Optical Synchronization Techniques for VUV and X-Ray Free  
Electron Lasers.

GFA Seminar, Villingen/CH (03/2008)

Influence of Erbium-doped Fiber Amplifiers on the Timing  
Stability of Optical Pulse Trains.

CLEO 08, Baltimore/Maryland, USA (05/2008)

M. PENNO, S. CHORоба, H.J. ECKOLDT, U. GENSCHE,  
T. GREVSMÜHL, M. GRIMBERG, L. JACHMANN, W. KÖHLER,  
H. LEICH, R. WENNDORFF

The Modulator Test Facility at DESY.  
EAPPC, Vilnius/LT (09/2008)

K. REHLICH, A. AGHABABYAN, P. GÖTTLICHER,

G. PETROSYAN, L. PETROSYAN, V. PETROSYAN, P. SMIRNOV,  
P. VETROV, M. ZIMMER

xTCA for a Large Accelerator.

NSS 2008, Dresden/DE (10/2008)

B. SCHMIDT, C. BEHRENS, H. DELSIM-HASHEMI, S. WESCH  
Microbunching Observations at FLASH.

Workshop on the Microbunching Instability II, Berkeley/CA, USA  
(10/2008)

S. SCHREIBER

PETRA Laserwire Laser.

ECFA Workshop on Physics and Detectors for a Linear Collider,  
Montpellier/FR (11/2003)

S. SCHREIBER, K. HONKAVAARA, F. LOEHL

Measurements of the Transverse Emittance at the VUV-FEL.  
ERL 2005, Newport News/USA (03/2005)

D. SERTORE, P. MICHELATO, L. MONACO, C. PAGANI,

F. STEPHAN, S. SCHREIBER

High Quantum Efficiency Photocathodes for RF Guns.

APAC2007, Indore/IN (01/2007)

H. TAMRAS

Trigger Philosophy in a Distributed System of Transient Recorders.

12th European Synchrotron Light Source RF Meeting, Didcot,  
Oxfordshire/UK (10/2008)

S. WESCH, C. BEHRENS, H. DELSIM-HASHEMI, B. SCHMIDT

Two Stage, Single Shot IR Spectrometer.

Workshop on the Microbunching Instability II, Berkeley/CA, USA  
(10/2008)

Spektroskopie kurzweiliger kohärenter Übergangsstrahlung bei  
FLASH.

DPG Frühjahrstagung, Freiburg/DE (03/2008)

S. WILKE

Overview and Status of Assembling and Commissioning the RF  
System at PETRA III.

12th European Synchrotron Light Source RF Meeting, Didcot,  
Oxfordshire/UK (10/2008)

K. ZAPFE ET AL.

The Vacuum Systems for the European X-Ray Free Electron Laser  
Project XFEL.

72. Jahrestagung der DPG und DPG Frühjahrstagung des  
Arbeitskreises Festkörperphysik, Berlin/DE (02/2008)

## Dissertationen

H. DELSIM-HASHEMI

Infrared Single Shot Diagnostics for the Longitudinal Profile of the  
Electron Bunches at FLASH.

Univ. Hamburg (2008)

DESY-THESIS-2008-024

M. HOFFMANN

Development of a Multichannel RF Field Detector for the Low-Level RF Control of the Free-Electron Laser at Hamburg. TU Hamburg-Harburg (2008)  
DESY-THESIS-2008-028

W. KOPREK

A Flexible Electronic Tool for Development of VXI Message-based Devices. Warsaw University of Technology, ISE (2008)

### Diplomarbeiten

S. GÖLLER

Investigation of High Power Limitation of Waveguide Elements at FLASH.

Universität Hamburg (2008)

K. SUCHECKI

Multichannel Downconverter Prototype for XFEL. Warsaw University of Technology, ISE (2008)

A. WILLNER

Investigations into the FLASH Infrared Undulator as an Electron Beam Diagnostic Tool.

Univ. Hamburg (2008)

TESLA-FEL 2008-04

### Buchbeiträge

M. SEIDEL, K. ZAPFE

Particle Accelerators.

Vacuum Electronics

Springer, Berlin Heidelberg (2008) ISBN 978-3-540-71928-1

### (Noch) Nicht im WJB

D.P. BARBER

Polarisation in Electron Rings.

Electron-Ion Collaboration Meeting, Hampton, Virginia/USA (05/2008)

W. BIALOWONS

WP 5 ILC Siting in Europe Work Package Report.

ILC-HiGrade Kick-Off Meeting, Deutsches

Elektronen-Synchrotron DESY, Hamburg/DE (08/2008)

S. LEDERER

Results of Recent Photocathode Studies at FLASH.

FLASH seminar, Hamburg/DE (10/2008)

S. SCHREIBER

Photoinjector Drive Laser at FLASH.

DESY FLA Seminar, Hamburg/DE (10/2006)

### Strahlenschutz

### Veröffentlichungen

S. GRABOWSKY, T. PFEUFFER, W. MORGENROTH,

C. PAULMANN, T. SCHIRMEISTER, P. LUGER

A Comparative Study on the Experimentally Derived Electron Densities of three Protease Inhibitor Model Compounds. *Org. Biomol. Chem.* 6 (2008) 2295

W. QUEVEDO, M. PETRI, S. TECHERT

Home-based time-resolved photo small angle X-ray diffraction and its applications.

*Z. Kristallogr.* 223 (2008) 322

<http://dx.doi.org/10.1524/zkri.2008.0031>

### Preprints und Interne Berichte

N. TESCH

Ergebnisse von Strahlenschutzmessungen am DESY im Jahre 2007.

DESY D3-105

### Veröffentlichte Vorträge

A. KLETT, A. LEUSCHNER

A Pulsed Neutron Dose Monitor.

Proc. of 2007 IEEE NSS/MIC, Honolulu/USA (10/2007)

IEEE (2008)

### Vorträge

S. MEBS, S. GRABOWSKY, A. LÜTH, W. LÖWE, T. PFEUFFER,

T. SCHIRMEISTER, C. PAULMANN, W. MORGENROTH, P. LUGER

Experimental charge densities of two types of protease inhibitor model compounds.

5th European Charge Density Meeting, ECDM 5 with DFG 1178 annual Meeting, Palazzo Gallio, Gravedona/IT (06/2008)

S. VAN SMAALEN, J. ANGELKORT, A. SCHÖNLEBER

Phase transitions in MOX (M = Ti, V, Cr; X = Cl, Br).

IUCR 2008, Osaka/JP (08/2008)

### (Noch) Nicht im WJB

S. GRABOWSKY, J. BECKMANN, M. HESSE, W. MORGENROTH,

C. PAULMANN, P. LUGER

Exploring the Electron-Density Distribution and the Electron

Localization Function for Several Siloxane Linkages: How

Changes the Electronic Situation with Different Si-O-Si Angles?

16. Jahrestagung der Deutschen Gesellschaft für Kristallographie

(DGK), Erlangen/DE (03/2008)

R. KALINOWSKI, S. GRABOWSKY, D. FOERSTER,

C. PAULMANN, W. MORGENROTH, M. WEBER, P. LUGER

Comparative charge density study on tripeptides of the type Ala-xxx-ala.

5th European Charge Density Meeting, ECDM 5 with DFG 1178

Annual Meeting, Palazzo Gallio, Gravedona/IT (06/2008)

P. LUGER

Electron Density in the Life Sciences.  
5th European Charge Density Meeting, ECDM 5 with DFG 1178  
Annual Meeting, Palazzo Gallio, Gravedona/IT (06/2008)

Topological Properties of C<sub>60</sub> and C<sub>70</sub> Fullerenes Based on High  
Resolution Diffraction Data from Synchrotron and Conventional  
X-Ray Sources.

Department of Physical Chemistry, Faculty of Chemical and Food  
Technology, Slovak University of Technology, Bratislava/Slovak  
Republic (06/2008)

P. LUGER, R. KALINOWSKI, S. MEBS, M. WEBER,  
S.I. TROYANOV, L. CHECINSKA, W. MORGENROTH,  
C. PAULMANN

Intra and Intermolecular Electron Density Properties of Some  
Fullerenes: First C<sub>70</sub> Examples.  
IUCR 2008, Osaka/JP (08/2008)

N. TESCH

Dismantling, Clearance and Radioactive Waste at DESY.  
ARIA'08, Villigen/CH (10/2008)

## Zentrale Dienste

### Veröffentlichungen

R.-D. HEUER, A. HOLTkamp, S. MELE  
Innovation in Scholarly Communication: Vision and Projects from  
High-Energy Physics.  
Inf. Serv. and Use 28 (2008) 83 and DESY 08-054;  
CERN-OPEN-2008-13; arXiv:0805.2739  
<http://dx.doi.org/10.3233/ISU-2008-0570>

### Technologie Transfer

---

#### Preprints und Interne Berichte

K. HENJES-KUNST, K. KROSCHEWSKI, D. KRUSE, K. WURR  
ERID-Watch Deliverable D3: Final Benchmarking Report (Main  
Paper and Annex).  
TT ERID 2008/001

#### Vorträge

K. HENJES-KUNST  
TT in Europe's RI (ERID Watch results).  
ERID-Watch Final European Conference, Prague/CZ (10/2008)

K. KROSCHEWSKI  
Industrial usage of synchrotron radiation (ERID Watch results).  
ERID-Watch Final European Conference, Prague/CZ (10/2008)

K. WURR  
Erfahrungen des DESY (Hamburg) im Bereich des  
Technologietransfers.  
Innovationsforum im CERN, Geneve/CH (01/2008)

### Bibliothek und Dokumentation

---

#### Veröffentlichungen

A. GENTIL-BECCOT, S. MELE, A. HOLTkamp,  
H.B. O'CONNELL, T.C. BROOKS  
Information Resources in High-Energy Physics: Surveying the  
Present Landscape and Charting the Future Course.  
JASIST 60 (2008) 150 and CERN-OPEN-2008-010; DESY  
08-040; FERMILAB-PUB-08-077-BSS; SLAC-PUB-13199;  
arXiv:0804.2701  
<http://dx.doi.org/10.1002/asi.20944>

R.-D. HEUER, A. HOLTkamp, S. MELE  
Innovation in Scholarly Communication: Vision and Projects from  
High-Energy Physics.  
Inf. Serv. and Use 28 (2008) 83 and DESY 08-054;  
CERN-OPEN-2008-13; arXiv:0805.2739  
<http://dx.doi.org/10.3233/ISU-2008-0570>