

Beschleuniger

Beschleuniger

Veröffentlichungen

- M. CHAMPION, C.M. GINSBURG, A. LUNIN, W.-D. MOELLER, R. NEHRING, V. POLOUBOTKO
The Variable Input Coupler for the Fermilab Vertical Cavity Test Facility.
IEEE Trans. Appl. Supercond. 19 (2009) 1423
<http://dx.doi.org/10.1109/TASC.2009.2018235>
- A. DANGWAL PANDEY, G. MUELLER, D. RESCHKE, X. SINGER
Field Emission from Crystalline Niobium.
Phys. Rev. STAB 12 (2009) 023501
<http://dx.doi.org/10.1103/PhysRevSTAB.12.023501>
- M. DOHLUS, I. ZAGORODNOV
Explicit TE/TM Scheme for Particle Beam Simulations.
J. Comput. Phys. 228 (2009) 2822 and DESY 08-146
<http://dx.doi.org/10.1016/j.jcp.2008.12.023>
- G. GELONI, V. KOCHARYAN, E.L. SALDIN,
E.A. SCHNEIDMILLER, M.V. YURKOV
Theory of Edge Radiation. Part I: Foundations and Basic Applications.
Nucl. Instrum. Methods A 607 (2009) 409
<http://dx.doi.org/10.1016/j.nima.2009.03.240>
- Theory of Edge Radiation. Part II: Advanced Applications.
Nucl. Instrum. Methods A 607 (2009) 470
<http://dx.doi.org/10.1016/j.nima.2009.04.039>
- C. GUTT ET AL.
Resonant Magnetic Scattering with Soft X-ray Pulses from a Free-Electron Laser Operating at 1.59 nm.
Phys. Rev. B 79 (2009) 212408
<http://dx.doi.org/10.1103/PhysRevB.79.212406>
- P. KNEISEL, G. CIOVATI, J. SEKUTOWICZ, L. TURLINGTON
Progress on the Development of a Superconducting Connection for Niobium Cavities.
IEEE Trans. Appl. Supercond. 19 (2009) 1416
<http://dx.doi.org/10.1109/TASC.2009.2019650>
- R. LIU, G. WANG, G. PEI, F. ZHAO, Z. GENG
LLRF Systems for Subharmonic Buncher System of BEPCII Linac.
Nucl. Instrum. Methods A 609 (2009) 221
<http://dx.doi.org/10.1016/j.nima.2009.08.057>
- D. MAKOWSKI, W. KOPREK, T. JEZYNSKI, A. PIOTROWSKI, G. JABLONSKI, W. JALMUZNA, S. SIMROCK
Interfaces and Communication Protocols in ATCA-Based LLRF Control Systems.
IEEE Trans. Nucl. Sci. 46 (2009) 7
- A.P. MANCUSO ET AL.
Coherent-Pulse 2D Crystallography Using a Free-Electron Laser X-Ray Source.
Phys. Rev. Lett. 102 (2009) 035502
<http://dx.doi.org/10.1103/PhysRevLett.102.035502>

G. NAUMENKO, A. POTYLITSYN, G. KUBE, O. GRIMM, V. CHA, Y. POPOV
Detector for Coherent Synchrotron Radiation Measurements from Separate Electron Bunches in a Millimeter Wavelength Region.
Nucl. Instrum. Methods A 603 (2009) 35

M. RÖHRS, CH. GERTH, H. SCHLARB, B. SCHMIDT, P. SCHMÜSER
Time-Resolved Electron Beam Phase Space Tomography at a Soft X-Ray Free-Electron Laser.
Phys. Rev. STAB 12 (2009) 13
<http://dx.doi.org/10.1103/PhysRevSTAB.12.050704>

A. ROSENHAHN ET AL.
Digital In-line Holography with Femtosecond VUV Radiation Provided by the Free-Electron Laser FLASH.
Opt. Lett. 17 (2009) 8220

B. STEFFEN ET AL.
Electro-optic Time Profile Monitors for Femtosecond Electron Bunches at the Soft X-Ray Free-Electron Laser FLASH.
Phys. Rev. STAB 12 (2009) 16
<http://dx.doi.org/10.1103/PhysRevSTAB.12.032802>

Preprints und Interne Berichte

V. BALANDIN, W. DECKING, N. GOLUBEVA
Errors in Reconstruction of Difference Orbit Parameters due to Finite BPM-Resolutions.
TESLA-FEL 2009-07

M. CLEMENS, M. DOHLUS, S. LANGE, G. PÖPLAU, T. LIMBERG, U. VAN RIENEN
Microbunch Amplification in the European XFEL.
TESLA-FEL 2009-02

B. FAATZ, E. PRAT
Alternative Focusing for FLASH.
TESLA-FEL 2009-10

G. GELONI, P. ILINSKI, E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Method for the Determination of the Three-Dimensional Structure of Ultrashort Relativistic Electron Bunches.
DESY 09-069

M. IVANYAN, K. MANUKYAN, K. SARGSYAN, V. TSAKANOV
The Study of Ion Trapping and Fast Ion Beam Instability in PETRA III Storage Ring.
DESY M 09-01

F. LÖHL
Optical Synchronization of a Free-Electron Laser with Femtosecond Precision.
TESLA-FEL 2009-08

E. PRAT
Spurious Dispersion Effects at FLASH.
TESLA-FEL 2009-06

E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Statistical and Coherence Properties of Radiation from X-ray Free Electron Lasers.
DESY 09-224

A. TSAKANIAN, M. DOHLUS, I. ZAGORODNOV
The Effect of the Metal Oxidation on the Vacuum Chamber Impedance.
TESLA-FEL 2009-05

R. WANZENBERG
Calculation of Higher Order Modes and Wakefields for the Vacuum Chamber of the CMS Experiment at the LHC.
LHC-Project-Note-418

C. GERTH, F. LUDWIG, C. SCHMIDT
Beam Based Measurements of the RF Amplitude Stability at FLASH Using a Synchrotron Radiation Monitor.
JACoW (2009) 342

Veröffentlichte Vorträge

Proc. of CERN Accelerator School, Special topic: Beam Diagnostics, Dourdon/FR (05/2008)
CERN-YELLOW (2009)

M. HUENING, R. JONAS, J. LUND-NIELSEN,
F. SCHMIDT-FOEHRE
A Resonant First Turn BPM for the Positron Intensity Accumulator (PIA) at DESY.
JACoW (2009) 77

G. KUBE
Specific Diagnostics Needs for Different Machines I, II.
CERN-YELLOW (2009) 1 and CERN-2009-005

G. KUBE, W. LAUTH
Investigation of the Light Yield of Luminescent Screens for High Energy and High Brilliant Electron Beams.
JACoW (2009) 387

K. WITTENBURG
Halo and Bunch Purity Monitoring.
CERN-YELLOW (2009) 557 and CERN-2009-005

T. LENSCHE, M. WERNER
Machine Protection System for PETRA III.
JACoW (2009) 351

Beam Loss Monitors.
CERN-YELLOW (2009) 249 and CERN-2009-005

D. LIPKA
Cavity BPM Designs, Related Electronics and Measured Performances.
JACoW (2009) 280

Proc. of DIPAC09, Basel/CH (05/2009)
JACoW (2009)

D. LIPKA, D. NOELLE, M. SIEMENS, S. VILCINS, F. CASPERS, M. STADLER, D.M. TREYER, H. MAESAKA, T. SHINTAKE
Orthogonal Coupling in Cavity BPM with Slots.
JACoW (2009) 44

G. ANGELOVA-HAMBERG ET AL.
Recent Results from the Optical Replica Synthesizer Experiment in FLASH.
JACoW (2009) 430

D. NOELLE
Electron Beam Diagnostics for the European XFEL.
JACoW (2009) 158

F. SCHMIDT-FOEHRE, A. BRENGER, G. KUBE, R. NEUMANN, K. WITTENBURG
BPM System Upgrades in the PETRA III Pre-Accelerator Chain during the 2008 Shutdown.
JACoW (2009) 92

V.R. ARSOV ET AL.
Temporal Profiles of the Coherent Transition Radiation Measured at FLASH with Electro-Optical Spectral Decoding.
JACoW (2009) 272

M. WERNER
A Concept to Improve the Availability of PETRA III by Correlation of Alarms, Timestamps and Post-Mortem-Analysis.
JACoW (2009) 225

K. BALEWSKI ET AL.
Commissioning Results of Beam Diagnostics for the PETRA III Light Source.
JACoW (2009) 19

Proc. of FEL09, Liverpool/UK (08/2009)
JACoW (2009)

C. BEHRENS, C. GERTH
On the Limitations of Longitudinal Phase Space Measurements using a Transverse Deflecting Structure.
JACoW (2009) 269

C. BEHRENS, C. GERTH, I. ZAGORODNOV
Numerical Performance Studies on the new Sliced-Beam-Parameter Measurement Setup for FLASH.
JACoW (2009) 599

A. BRENGER, I. KROUPTCHENKOV, G. KUBE,
F. SCHMIDT-FOEHRE, K. WITTENBURG
Experience with the Commissioning of the Libera Brilliance BPM Electronics at PETRA III.
JACoW (2009) 291

M.K. BOCK ET AL.
New Beam Arrival Time Monitor Used in a Time-Of-Flight Injector Measurement.
JACoW (2009) 659

E. CHIADRONI, M. CASTELLANO, A. CIANCHI,
K. HONKAVAARA, G. KUBE
Optical Diffraction Radiation Interferometry as Electron Transverse Diagnostics.
JACoW (2009) 151

B. FAATZ, J. FELDHAUS, K. HONKAVAARA, J. ROSSBACH, S. SCHREIBER, R. TREUSCH
Flash Status and Upgrade.
JACoW (2009) 459

G. GELONI, P. ILINSKI, E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Coherent Optical Transition Radiation as a Tool for Ultra-Short Electron Bunch Diagnostics.
JACoW (2009) 251

G. GELONI, V. KOCHARYAN, E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Theory of Edge Radiation. Part I: Foundations and Basic Applications.
JACoW (2009) 750

Theory of Edge Radiation. Part II: Advanced Applications and Impact on XFEL Setups.
JACoW (2009) 492

G. GELONI, P. ILINSKI, E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Integration of the Optical Replica Ultrashort Electron Bunch Diagnostics with the High-Resolution Coherent Optical Transition Radiation Imager.
JACoW (2009) 603

Method for the Determination of the Three-Dimensional Structure of Ultrashort Relativistic Electron Bunches.
JACoW (2009) 607

K. HACKER ET AL.
Design and Drift Performance of the FLASH Master Laser Oscillator RF-Lock.
JACoW (2009) 663

Demonstration of a BPM with 5 Micron Resolution over a 10 cm Range.
JACoW (2009) 667

J.-H. HAN, J. ROWLAND, K. FLOETTMANN, S. SCHREIBER
Jitter and Tolerance Study of L-Band FEL Injector.
JACoW (2009) 344

E.L. SALDIN, E.A. SCHNEIDMILLER, V.F. VOGEL, H. WEISE, M.V. YURKOV
Potential of FLASH FEL Technology for Construction of a kW-Scale Light Source for the Next Generation Lithography.
JACoW (2009) 142

E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
A Scheme for Pump-Probe Experiments at an X-Ray SASE FEL.
JACoW (2009) WEPC48

Limitations on the Operation of a Soft X-ray FEL (SASE3) at the European XFEL.
JACoW (2009) 615

Expected Properties of the Radiation from a Soft X-ray SASE FEL (SASE3) at the European XFEL.
JACoW (2009) 623

P. SALEN ET AL.
Results from the Optical Replica Synthesizer at FLASH.
JACoW (2009) 739

S. SCHULZ ET AL.
Progress Towards a Permanent Optical Synchronization Infrastructure at FLASH.
JACoW (2009) 671

S. WESCH, C. BEHRENS, B. SCHMIDT, P. SCHMÜSER
Observation of Coherent Optical Transition Radiation and Evidence for Microbunching in Magnetic Chicanes.
JACoW (2009) 619

L. WISSMANN ET AL.
Electro-Optic Electron Bunch Diagnostic at FLASH using an Ytterbium Fiber Laser.
JACoW (2009) 627

I. ZAGORODNOV, M. DOHLUS
Numerical FEL studies with a new code ALICE.
JACoW (2009) 71

J. ZEMELLA ET AL.
RF-Based Detector for Measuring Fiber Length Changes with Sub-5 Femtosecond Long-Term Stability Over 50h.
JACoW (2009) 780

Proc. of FEL 2008, Gyeongju/KR (08/2008)
JACoW (2009)

A. AZIMA ET AL.
Tolerance Studies on the High Harmonic Laser Seeding at FLASH.
JACoW (2009) 235

S. KHAN ET AL.
sFLASH: An Experiment for Seeding VUV Radiation at FLASH.
JACoW (2009) 405

Results from the Optical Replica Experiment at FLASH.
JACoW (2009) 497

F. LÖHL ET AL.
Observation of 40 fs Synchronization of Electron Bunches for FELs.
JACoW (2009) 490

M. RÖHRS, C. GERTH
Electron Beam Diagnostics with Transverse Deflecting Structures at the European X-Ray Free Electron Laser.
JACoW (2009) 90

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.
JACoW (2009) 397

R. TARKESHIAN, J. BOEDEWADT, M. DRESCHER, R. ISCHEBECK, J. ROSSBACH, H. SCHLARB, S. SCHREIBER
Conceptual Ideas for the Temporal Overlap of the Electron Beam and the Seed Laser for sFLASH.
JACoW (2009) 363

J. ZEMELLA ET AL.
Drift-Free, Cost-Effective Detection Principle to Measure the Timing Overlap Between Two Optical Pulse Trains.
JACoW (2009) 401

Proc. of ICALEPCS 2009, Kobe/JP (10/2009)
JACoW (2009)

A. AGHABABYAN, G. GRYGIEL, R. KAMMERING, V. KOCHARYAN, L. PETROSYAN, K. REHLICH, V. RYBNIKOV, T. WILKSEN
Evolution of the FLASH DAQ System.

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

K. REHLICH
New Hardware and Software Developments for the XFEL.
E. SOMBROWSKI, P. GESSLER, A. PETROSYAN, K. REHLICH, J. MEYER
Jddd in Action.

J. STRAMPE, K. REHLICH, R. KAMMERING
E-logbook Reloaded – or the Renovation of DESYs Electronic Logbook.

Proc. of MIXDES 2009, Lodz/PL (06/2009) IEEE (2009)

L. BUTKOWSKI, W. KOPREK
Klystron Lifetime Management System.

M. GRECKI, J. MATIULKO, T. POZNIAK, K. PRZYGODA
Development and Tests of PWM Amplifier for Driving the Piezoelectric Elements.

M. GRECKI, G. JABLONSKISKI, D. MAKOWSKI
Improvements of SEU Tolerance by Spatial Redundancy in Digital Circuits.

K. PRZYGODA, T. POZNIAK, A. NAPIERALSKI, M. GRECKI
A Novel Approach for Automatic Control of Piezoelectric Elements Used for Lorentz Force Detuning Compensation.

S. SIMROCK, M. GRECKI, T. JEZYNSKI, W. KOPREK,
L. BUTKOWSKI, G. JABLONSKI, W. JALMUZNA,
D. MAKOWSKI, A. PIOTROWSKI, K. CZUBA
Evaluation of an ATCA Based LLRF System at FLASH.

S. SZACHOWALOW, D. MAKOWSKI, G. JABLONSKI,
A. NAPIERALSKI, L. BUTKOWSKI, W. KOPREK, S. SIMROCK
Software for Data Acquisition AMC Module with PCI Express Interface.

Proc. of PAC09, Vancouver/CA (05/2009) JACoW (2009)

P. BAK, V. ZABRODIN, A. KOREPANOV, V. VOGEL
Klystron Cathode Heater Power Supply System Based on the High-Voltage Gap Transformer.

G. CANCEOLO, B. CHASE, M. DAVIDSAVER, V. AYVAZIAN,
M. GRECKI, S. SIMROCK, J. CARWARDINE, T. MATSUMOTO,
S. MICHIZONO
Analysis of DESY-FLASH LLRF Measurements for the ILC Heavy Beam Loading Test.

B. FAATZ, J. FELDHAUS, K. HONKAVAARA, S. SCHREIBER,
J. ROSSBACH
FLASH Upgrade.

E. MÉTRAL, R. WANZENBERG
Wake and Higher Order Mode Computations for the CMS Experimental Chamber at the LHC.
CERN-ATS-2009-118

P. PIERINI, A. BOSOTTI, R. PAPARELLA, D. SERTORE,
E. VOGEL
Fabrication Experience of the Third Harmonic Superconducting Cavity Prototypes for the XFEL.

E.L. SALDIN, E.A. SCHNEIDMILLER, A. SERYI, M.V. YURKOV
Free Electron Laser for Gamma-Gamma Collider at a Low-Energy Option of International Linear Collider.
SLAC-PUB-13768

J. SEKUTOWICZ, P. KNEISEL
Cryogenic Test of a Coaxial Coupling Scheme for Fundamental and Higher Order Modes in Superconducting Cavities.

J. SEKUTOWICZ, A. MUHS, P. KNEISEL, R. NIETUBYC
Cryogenic Test of the Nb-Pb SRF Photoinjector Cavities.

A.V. TSAKANIAN, M. DOHLUS, I. ZAGORODNOV
Numerical Calculation of Wake Fields in Structures with Conductive Walls.

N. WALKER ET AL.
Operation of the FLASH LINAC with Long Bunch Trains and High Average Current.

G. XIA, R. WANZENBERG, M. IVANYAN, K. MANUKYAN,
K.A. SARGSYAN
Ion Effect Issues in PETRA III.

O. ZAGORODNOVA, T. LIMBERG
Impedance Budget Database for the European XFEL.

Proc. of SRF09, Berlin/DE (09/2009) JACoW (2009)

M. BOEHNERT, D. HOPPE, L. LILJE, H. REMDE,
J. WOJTKIEWICZ, K. ZAPFE
Particle Free Pump Down and Venting of UHV Vacuum Systems.
JACoW (2009) 883

A. BRINKMANN, M. LENGKEIT, J.A. LORKIEWICZ
TIN Coating of RF Power Components for the European XFEL.
JACoW (2009) 652

F. ÉOZÉNOU, Y. GASSER, J.-P. CHARRIER, S. BERRY,
C. ANTOINE, D. RESCHKE
Low-Voltage Electro-Polishing of SRF Cavities.
JACoW (2009) 781

A. GOESSEL, T. BUETTNER, P.-D. GALL, G. GRYGIEL,
V. GUBAREV, C. MUELLER
The RF-Power-Conditioning-System for the FLASH RF Main Couplers.
JACoW (2009) 656

E. HARMS ET AL.
Third Harmonic System at Fermilab*/FLASH.
JACoW (2009) 11

K. HONKAVAARA, B. FAATZ, J. FELDHAUS, S. SCHREIBER,
R. TREUSCH, J. ROSSBACH
Status of the Free-Electron Laser User Facility FLASH.

J. IVERSEN, TH. BUETTNER, A. GOESSEL, D. KLINKE,
G. KREPS, W.-D. MOELLER, C. MUELLER
Development and Design of a RF-Measurement Machine for the European XFEL Cavity Fabrication.
JACoW (2009) 786

T. KAMPS ET AL.
SRF Electron Gun Development for Future Light Sources.
JACoW (2009) 164

P. KNEISEL, J.K. SEKUTOWICZ
Update on Coaxial Coupling Scheme for ILC-Type Cavities.
JACoW (2009) 728

D. KOSTIN, W.-D. MOELLER, J.K. SEKUTOWICZ,
K. TWAROWSKI
TESLA Type 9-Cell Cavities Continuous Wave Tests.
JACoW (2009) 338

D. KOSTIN, W.-D. MOELLER, A. GOESSEL, K. JENSCH
Superconducting Accelerating Module Tests at DESY.
JACoW (2009) 180

S. KOTTHOFF, A. GOESSEL, C. MUELLER
Development of a Remote-Controlled Coupler-Interlock for the
XFEL Accelerator Module Test Facility (AMTF).
JACoW (2009) 661

G. KREPS, A. GÖSSEL, D. PROCH, W.-D. MÖLLER,
D. KOSTIN, K. TWAROWSKI
Excitation of Parasitic Modes in CW Cold Test of 1.3 GHz
TESLA-Type Cavities.
JACoW (2009) 289

P.A. MCINTOSH ET AL.
Assembly Preparations for the International ERL Cryo-Module
at Daresbury Laboratory.
JACoW (2009) 864

A. NAVITSKI, G. MÜLLER, K. FLÖTTMANN, S. LEDERER
Novel UHV Scanning Anode Field Emission Microscope
(SAFEM) for Dark Current Investigations on Photocathodes.
JACoW (2009) 312

A. NAVITSKI, S. LAGOTZKY, G. MÜLLER, D. RESCHKE
Surface Roughness and Correlated Enhanced Field Emission
Investigations of Electropolished Niobium Samples.
JACoW (2009) 316

D. RESCHKE, L. LILJE, H. WEISE
Analysis of RF Results of Recent Nine-Cell Cavities at DESY.
JACoW (2009) 342

X. SINGER, A. ERMAKOV, W. SINGER, A. SCHMIDT,
A. MATHEISEN
Structure of the Electron Beam Welding Connections
Nb55%Ti-Nb and Nb55%Ti-Ti.
JACoW (2009) 412

W. SINGER, X. SINGER, A. ERMAKOV, K. TWAROWSKI,
S. ADERHOLD, F. SCHOLZ, P. MICHELATO
Surface Investigation of Samples Extracted from Prototype
Cavities for European XFEL.
JACoW (2009) 411

J.-H. THIE ET AL.
Mechanical Design of Automatic Cavity Tuning Machines.
JACoW (2009) 797

H. WEISE
The European XFEL Based on Superconducting Technology.
HZB (2009) 6

Weitere veröffentlichte Vorträge

H. LANGKOWSKI, C. SCHMIDT, G. LICHTENBERG, H. WERNER
An Iterative Learning Control Approach Combined with a
Multivariable RF Controller for the Free Electron Laser FLASH.
Proc. of ECC09, Budapest/HU (08/2009)
EUCA (2009) 442

Vorträge

1st IRUVX-PP Annual Meeting, Trieste/IT (03/2009)

V. ARSOV ET AL.
Synchronization of Ti:Sapphire Lasers to the Optical Reference
System.

P. GESSLER ET AL.
Installation, Commissioning and Operation of the Master Laser
Oscillator at FLASH.

F. LÖHL ET AL.
BAM Implementation Challenges.

H. SCHLARB ET AL.
New Developments and Missing Components of an Optical
Synchronization System.

A. WINTER ET AL.
Infrastructure Requirements for an Optical Synchronization
System.

DPG 2009, München/DE (03/2009)

C. BEHRENS, B. SCHMIDT, S. WESCH
Spektrale Messungen kohärenter Synchrotronstrahlung
bei FLASH.

J. BÖDEWADT ET AL.
sFLASH: Das „Seeding“-Projekt am Freie-Elektronen-Laser
in Hamburg.

S. SCHULZ ET AL.
Optische Synchronisation Verteilter Lasersysteme bei FLASH.

S. WESCH, C. BEHRENS, H. DELSIM-HASHEMI, B. SCHMIDT,
P. SCHMÜSER
Nachweis von Elektronenpaketsubstruktur im Mikrometerbereich
mittels Spektroskopie kohärenter Übergangsstrahlung bei FLASH.

L.-G. WISSMANN ET AL.
Bau eines Ytterbium-Faserlasers für Elektrooptische Experimente
zur Longitudinalen Elektronenstrahldiagnostik bei FLASH.

ESLS-RF 2009, Hamburg/DE (09/2009)

M. EBERT
PETRA III, Longitudinal Feedback RF.

A. EISLAGE
Automatic Field Balancing of the PETRA III 7-Cell Cavities.

R. ONKEN
PETRA III RF Status Report.

European Pulsed Power Conference 2009, Geneva/CH (09/2009)

H.-J. ECKOLDT, N. NGADA, J. HAVLICEK, A. HAUBERG,
S. CHOROBA, T. GREVSMUEHL, I. SOKOLOV, T. FROELICH
Test of a Bouncer Modulator with Pulse Cable at FLASH.

H. LEICH, S. CHOROBA, H.J. ECKOLDT, U. GENSCHE,
T. GREVSMUEHL, M. GRIMBERG, L. JACHMANN,
W. KOEHLER, M. PENNO, R. WENNDORFF
Development and Test of XFEL Modulator Prototypes.

R. WAGNER ET AL.
The Bouncer Modulators at DESY.

ICALEPCS 2009, Kobe/JP (10/2009)

R. BACHER
Commissioning of the New Control Systems for the PETRA3 Accelerator Complex at DESY.

P.K. BARTKIEWICZ, P. DUVAL, S.W. HERB, M. LOMPERSKI, S. WEISSE
TINE Release 4.1: Responding to the User's Needs.

P. DUVAL, D. MELKUMYAN, A. SHAPOVALOV, S. WEISSE
TINE Video System: Proceedings on Redesign.

LLRF09, Tsukuba/JP (10/2009)

V. AYVAZYAN
LLRF Operation Experience at FLASH.

K. CZUBA, H.C. WEDDIG
Experience with the New Master Oscillator at FLASH.

K. CZUBA
Timing and Synchronization.

Z. GENG, V. AYVAZYAN, S. SIMROCK
Application Software for LLRF Control.

M. HOFFMANN
DESY LLRF Lab Talk.

W. KOPREK
ATCA-based LLRF System for XFEL - Demonstration at FLASH (DESY).

C. SCHMIDT
Combined Multivariable Feedback and Iterative Learning Control Applied to the RF System of FLASH.

SRF09, Berlin/DE (09/2009)

W.-D. MÖLLER
Review of Results from Temperature Mapping and Subsequent Cavity Inspection.

D. PROCH
Impact of CARE - SRF on FLASH / XFEL and Other Projects.

D. RESCHKE
Basic Studies for Process Parameter Developments for EP / HPR / Snow Cleaning.

W. SINGER
Progress With Large Grain Cavities & Seamless Cavities.

Weitere Vorträge

S. ADERHOLD, D. RESCHKE
High Gradient SRF Research at DESY.
LP09, Hamburg/DE (08/2009)

M. BIELER, F. WILLEKE
Lessons learned from 16 Years of HERA Operation.
ARW2009, Vancouver/CA (01/2009)

M.K. BOCK ET AL.
New Beam Arrival Time Monitor Used in a Time-Of-Flight Injector Measurement.
FEL09, Liverpool/UK (08/2009)

M. FELBER, V. ARSOV, M. BOCK, P. GESSLER, K. HACKER, F. LÖHL, H. SCHLARB, B. SCHMIDT, S. SCHULZ, A. WINTER
Femtosecond Optical Synchronization System for FLASH.
CLIC09, Geneva/CH (10/2009)

K. REHLICH
MicroTCA Update from a Physics Lab's Point of View.
MicroTCA Conference, Muenchen/DE (11/2009)

E.L. SALDIN, E.A. SCHNEIDMILLER, M.V. YURKOV
Expected Properties of the Radiation from SASE3.
SCS 2009, Villigen/CH (06/2009)

Optical Afterburner for an X-ray FEL as a Tool for Pump-probe Experiments.
FXE 2009, Budapest/HU (12/2009)

S. SCHREIBER
FLASH Operation as an FEL User Facility.
PAC09, Vancouver/CA (05/2009)

W. SINGER
SC Cavity Material, Fabrication and QA.
SRF 2009, Dresden/DE (09/2009)

L. WISSMANN ET AL.
Electro-Optic Electron Bunch Diagnostic at FLASH using an Ytterbium Fiber Laser.
FEL09, Liverpool/UK (08/2009)

Habilitationen

J. SEKUTOWICZ
Multi-Cell Superconducting Structures for High Energy e+e- Colliders and Free Electron Laser Linacs.
A. Soltan Institute for Nuclear Studies (2009)
INS SINS-32/X

Dissertationen

L. FRÖHLICH
Machine Protection for FLASH and the European XFEL.
Universität Hamburg (2009)
DESY-THESIS-2009-012

E. PRAT
Spurious Dispersion Effects at FLASH.
Universität Hamburg (2009)
DESY-THESIS-2009-026;TESLA-FEL 2009-06

Buchbeiträge

M. HOFFMANN
Measurement, Statistics and Errors.
CAS – CERN Accelerator School on Beam Diagnostics
CERN, Geneva (2009) ISBN 978-92-9083-333-8

H. MAIS
Some Topics in Beam Dynamics of Storage Rings.
Warsaw University of Technology, ISE, Warsaw (2009) ISBN
978-83-7207-841-4

Strahlenschutz

Veröffentlichungen

- J. ANGELKORT, A. WÖLFEL, A. SCHÖNLEBER, S. VAN SMAALEN, R.K. KREMER
Observation of strong magnetoelastic coupling in a first-order phase transition of CrOCl.
Phys. Rev. B 80 (2009) 144416
<http://dx.doi.org/10.1103/PhysRevB.80.144416>
- E.A. JUAREZ-ARELLANO, A. FRIEDRICH, D.J. WILSON, L. WIEHL, W. MORGENTHROTH, B. WINKLER, M. AVDEEV, R.B. MACQUART, C.D. LING
Single crystal structure analysis of HoBaCo₄O₇ at ambient conditions, at low temperature and at high pressure.
Phys. Rev. B 79 (2009) 064109
<http://dx.doi.org/10.1103/PhysRevB.79.064109>
- A. SCHÖNLEBER, J. ANGELKORT, S. VAN SMAALEN, L. PALATINUS, A. SENYSHYN, W. MORGENTHROTH
Phase transition, crystal structure, and magnetic order in VOCl.
Phys. Rev. B 80 (2009) 064426
<http://dx.doi.org/10.1103/PhysRevB.80.064426>

Preprints und Interne Berichte

N. TESCH
Ergebnisse von Strahlenschutzmessungen am DESY im Jahre 2008.
D3-106

Vorträge

A. KLETT, A. LEUSCHNER, N. TESCH
A Dose Meter for Pulsed Neutron Fields.
11th Neutron and Ion Dosimetry Symposium, Cape Town/South Africa (10/2009)

Dissertationen

J. ANGELKORT
Characterization of phase transitions by the analysis of crystal structures.
Universität Bayreuth (2009)

Diplomarbeiten

J. BIEHLER
Einfluss der Kationensubstitution auf das Hochdruckverhalten ausgewählter ternärer Bismutoxide.
Goethe-University Frankfurt, Frankfurt am Main (2009)

Zentrale Dienste

Elektronikentwicklung

Veröffentlichungen

- K. HANSEN, C. RECKLEBEN, I. DIEHL, H. KLÄR, E. WELTER
Fast X-Ray Spectroscopy Using Si-Drift Detectors.
IEEE Trans. Nucl. Sci. 56 (2009) 1666
<http://dx.doi.org/10.1109/TNS.2009.2015947>
- K. HANSEN, C. RECKLEBEN, I. DIEHL, H. KLÄR
A compact 7-cell Si-drift detector module for high-count rate X-ray spectroscopy.
Nucl. Instrum. Methods A 589 (2008) 250

Vorträge

- P. GÖTTLICHER, I. SHEVIAKOV, M. ZIMMER
10G-Ethernet Prototyping for 2-D X-Ray Detectors at the XFEL.
IEEE Realtime Conference 2009, Beijing/CN (05/2009)
- P. GÖTTLICHER FOR THE AGIPD CONSORTIUM
The Electronics in the Detector Head of the AGIPD-Detector – a 1M Pixel, 5 MHz Camera for the European XFEL.
2009 Nuclear Science Symposium and Medical Imaging Conference, Orlando/USA (10/2009)

P. GÖTTLICHER FOR THE CALICE COLLABORATION
Readout and calibration electronics integration for a tile hadron calorimeter.
TIPP09, Tsukuba/JP (03/2009)

P. GÖTTLICHER FOR THE CASTOR COLLABORATION
Design and test beam studies for the CASTOR calorimeter of the CMS experiment.
TIPP09, Tsukuba/JP (03/2009)

P. GÖTTLICHER ON BEHALF OF THE CALICE COLLABORATION
First Results of the Engineering Prototype of the CALICE Tile Hadron Calorimeter.
2009 Nuclear Science Symposium and Medical Imaging Conference, Orlando/USA (10/2009)

Informationstechnik

Veröffentlichungen

- D. SOHMEN, J.M. HARMS, F. SCHLÜNZEN, D.N. WILSON
SnapShot: Antibiotic inhibition of protein synthesis I.
Cell 138 (2009) 1248.e1
<http://dx.doi.org/10.1016/j.cell.2009.08.001>
- Enhanced SnapShot: Antibiotic inhibition of protein synthesis II.
Cell 139 (2009) 212.e1
<http://dx.doi.org/10.1016/j.cell.2009.08.009>