

APPENDIX

PUBLICATIONS

- A. Adelman, D. Feichtinger, *Generic Large Scale 3D Visualization of Accelerators and Beam Lines*, Computational Science - ICCS 2002 Proc., Part III. Springer Lecture Notes in Computer Science, 362 (2002).
- A. Adelman, *Space Charge Calculations at PSI*, 20th ICFA Advanced Beam Dynamics Workshop, High Intensity High Brightness Hadron Beams, Fermilab, Proc. AIP **642**, 316 (2002).
- M. Böge, J. Chrin, *On the Use of CORBA in High Level Software Applications at the SLS*, Proc. 8th Int. Conference on Accelerator and Large Experimental Control Systems (ICALEPCS 2001) ed. H. Shoaee 430 (2002).
- M. Böge, *First Operation of the Swiss Light Source*, Proc. EPAC'02, Paris, France, 39 (2002).
- M. Böge, A. Streun, V. Schlott, *Measurement and Correction of Imperfections in the SLS Storage Ring*, Proc. EPAC'02, Paris, France, 1127 (2002).
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- D. Bulfone, V. Forchi, M. Lonza, L. Zambon, M. Dehler, *The ELETTRA digital Multi-Bunch Feedback Systems*, Proc. EPAC'02, Paris, France, 2061 (2002).
- S. Chel, P. Bosland, Ph. Brédy, J.-P. Charrier, G. Devanz, M. Luong, M. Maurier, S. Régnaud, E. Chiaveri, R. Losito, S. Marque, A. Anghel, P. Marchand, M. Pedrozzi, P. Craievich, A. Fabris, C. Pasotti, G. Penco, M. Svandrlik, *Super-3HC Cryo-module: Layout and First Tests*, Proc. EPAC'02, 2217, (2002).
- M. Dehler, *Kicker Design for the ELETTRA/SLS longitudinal Multi-Bunch Feedback*, Proc. EPAC'02, Paris, France, 2070 (2002).
- R. Dölling, L. Rezzonico, U. Frei, S. Benz, P.-A. Duperrex, M. Humbel, *Profile Measurement of Scanning Proton Beam for LiSoR Using Carbon Fibre Harps*, 10th Beam Instrumentation Workshop, Upton, New York, USA, Proc. AIP **648**, 361 (2002).
- G. Heidenreich, *Carbon and Beryllium Targets at PSI*, Proc. 20th ICFA Advanced Beam Dynamics Workshop on High Intensity and High Brightness Hadron Beams, ICFA-HB2002, Batavia Illinois 2002, Proc. AIP **642**, 122 (2002).
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- A. Lüdeke, M. Muñoz, *Top-Up Operation at the Swiss Light Source*, Proc. EPAC'02, Paris, France, 721 (2002).
- P. Marchand, J. Cherix, C. Geiselhart, M. Pedrozzi, W. Portmann, W. Tron, *Operation of the SLS RF System*, Proc. EPAC'02, Paris, France, 712 (2002).
- P. Marchand, W. Gloor, M. Pedrozzi, Ph. Brédy, A. Anghel, *Cryogenic System for the SLS Third Harmonic RF Cavity*, Proc. EPAC'02, p. 2268, (2002).
- T. Schilcher, M. Böge, J. Chrin, P. Pollet, V. Schlott, *Orbit Control at the SLS Storage Ring*, Proc. 26th Advanced ICFA Beam Dynamics Workshop on Nanometre-Size Colliding Beams, Nanobeam 2002, Lausanne, Switzerland, (2002). (icfa-nanobeam.web.cern.ch/icfa-nanobeam/paper/schilcher_OCOSLS.pdf)
- V. Schlott, *Global Position Feedback in SR Sources*, Proc. EPAC'2002, Paris, 104 (2002).
- P. Schmelzbach, Y. Mori, G. Dutto, R. Baartman, *Summary Report of Joint Session C and G: FFAGs and Cyclotrons*, 20th ICFA Advanced Beam Dynamics Workshop on High Intensity and High Brightness Hadron Beams, Batavia, USA, Proc. AIP **642**, 195 (2002).
- P. Schmelzbach, T. Stambach, S. Adam, A. Mezger, P. Sigg, *The PSI High Intensity Cyclotron and Its Extrapolation to a 10 MW Driver*, 20th ICFA Advanced Beam Dynamics Workshop on High Intensity and High Brightness Hadron Beams, Batavia, USA, Proc. AIP **642**, 197 (2002).
- T. Stambach, S. Adam, A. Mezger, P. Sigg, P.A. Schmelzbach, *Reliable Cyclotron Design*, 3rd Int. Workshop on Utilisation and Reliability of High Power Accelerators, Santa Fe, USA, CD-ROM/[stambach.pdf](#) (2002).
- S. Teichmann, *Issues of Shielding and Activation at the Paul Scherrer Institut*, Proc. 12th Biennial Radiation Protection and Shielding Division Topical Meeting of the American Nuclear Society, Santa Fe, USA (2002) in press.
- J.H. Timmer, T.L. van Vuure, J. de Haas, V. Bom, C.W. van Eijk, J.M. Schippers, *A Scintillating GEM for 2D-Dosimetry in Radiation Therapy*, Nucl. Instr. and Meth. A **478**, 98 (2002).
- E. Wagner, *Remote Handling and Shielding at PSI*, 20th ICFA Advanced Beam Dynamics Workshop on High Intensity and High Brightness Hadron Beams, ICFA-HB2002, Batavia Illinois 2002, Proc. AIP **642**, 265 (2002).
- F.Q. Wei, K. Dreyer, H. Umbricht, *Status of the SLS Alignment System*, 7th Int. Workshop on Accelerator Alignment, Proc. IWAA2002, Spring-8 JAPAN, (2002).

DIPLOMA THESES

A.E. Candel
Behaviour of different Poissons Solvers in the Light of Beam Dynamics Simulations
 Betreuung: A. Adelman, Leitung: R. Eichler
 Oktober 2001

S.C. Leemann
Precise Energy Calibration Measurement at the SLS Storage Ring by Means of Resonant Spin Depolarization
 Betreuung: M. Böge, L. Rivkin, Leitung: R. Eichler
 WS 2001/2002

DISSERTATIONS

A. Adelman
3D Simulations of Space Charge Effects in Practicle Beams
 Ph.D. Thesis, No. 14545, ETH Zürich, 2002

INVITED TALKS

A. Adelman
Space Charge Calculations at PSI
 20th ICFA Advanced Beam Dynamics Workshop, High Intensity High Brightness Hadron Beams, Fermilab, USA
 8.-12.4.2002

A. Adelman
On Space Charge related Issues in Circular Machines and Beamlines
 SCCM Seminars, Scientific Computing and Computational Mathematics, Stanford University
 25.11.2002

M. Böge
First Operation of the Swiss Light Source
 EPAC'02, Paris, France
 3.-7.6.2002

M. Böge
"Top-up" Operation at the Swiss Light Source
 SPring-8, Hyoto, Japan
 3.12.2002

V. Schlott
Global Position Feedback in SR Sources
 EPAC'02, Paris, France
 3.-7.6.2002

P.A. Schmelzbach
High Power Cyclotrons
 Accelerator Reliability Wokrshop, ESRF, Grenoble, France
 2.-4.2.2002

P.K. Sigg
Operating the PSI RF Systems at 1 MW (CW) beam power
 2nd CW and High Average Power RF- System Users Group Meeting, APS, Argonne Natl. Lab, USA
 13.-15.3.2002

P.K. Sigg
Improving the Reliability of the PSI Proton Accelerator RF- Systems
 Accelerator Reliability Workshop, ESRF, Grenoble, France
 2.-4.2.2002

T. Stambach
Cyclotron Performance and New Developments
 EPAC'02, Paris, France
 3.-7.6.2002

A. Wrulich
The development of Light Sources up to the SLS and beyond
 John Adams Memorial Lecture, CERN, Geneva, Switzerland
 December 2002

ORAL PRESENTATIONS

A. Adelman
Tree Codes
 Advanced Accelerator Concepts Workshop AAC
 24.6.2002

M. Böge
On the Use of CORBA in High Level Software Applications at the SLS
 Jefferson Laboratory, Newport News, USA
 5.11.2002

M. Böge
CORBA based Beam Dynamics Applications at the SLS
 Jefferson Laboratory, Newport News, USA
 8.11.2002

M. Böge
Slow Orbit Feedback
 10th ESLS X Workshop, PSI, Villigen, Switzerland,
 18.-19.11.2002

M. Böge
Orbit Stability at the SLS
 2nd IWBS Workshop, SPring-8, Hyoto, Japan
 4.12.-6.12.2002

M. Böge
Orbit Control at the SLS
 2nd IWBS Workshop, SPring-8, Hyoto, Japan
 4.-6.12.2002

J. Chrin
CORBA Experience at the SLS
 CORBA Controls Workshop, ESRF, Grenoble, France
 9.-11.10.2002

J. Chrin
Making a Statement with CORBA
 4th Int. Workshop on Personal Computers and Particle Accelerator Controls (PCaPAC 2002), Frascati, Italy
 14.-17.10.2002

- G. Heidenreich
Carbon and Beryllium Targets and Beam Windows at PSI
20th ICFA Advanced Beam Dynamics Workshop on High Intensity and High Brightness Hadron Beams, Fermilab, USA
8.-12.4.2002
- M. Humbel
Status of the PSI High Power Cyclotrons
23th European Cyclotron Progress Meeting, HIL Warsaw and Krakow, Poland
17.-21.9.2002
- T. Korhonen
Helical Undulator Control at SLS
EPICS Meeting Spring 02, BESSY, Berlin, Germany
22.-23.5.2002
- T. Korhonen
SLS Timing System
EPICS Collaboration Meeting Fall 2002, Jefferson Lab, Newport News, Virginia, USA
19.-22.11.2002
- T. Korhonen
SLS Master Pattern Generator
EPICS Collaboration Meeting Fall 2002, Jefferson Lab, Newport News, Virginia, USA
19.-22.11.2002
- S.C. Leemann
Energy Calibration of the SLS Storage Ring
10th ESLS Workshop, PSI, Villigen, Switzerland
18.-19.11.2002
- A. Lüdeke
Channel Configuration Management
4th Workshop of PCs and Particle Accelerator Control PCaPAC, Frascati National Laboratories, Italy
14.-17.10.2002
- A. Lüdeke
SLS Operation
10th ESLS X Workshop, PSI, Villigen, Switzerland,
18.-19.11.2002
- D. Maden
On-the-Fly Scanning at the SLS Material Science Beamline
EPICS Meeting Spring'02, Bessy, Berlin, Germany
22.-23.5.2002
- M. Muñoz
SLS Status and Commissioning
Int. Workshop Energy Recovery Linacs as Drivers for Advanced Light Sources (ERL-SYN), Erlangen, Germany
31.5.-1.6.2002
- M. Muñoz
Top-up at the SLS
10th ESLS X Workshop, PSI, Villigen, Switzerland,
18.-19.11.2002
- M. Pedrozzi
3rd Harmonic System of the SLS Storage Ring – First Results
10th ESLS Workshop, Villigen, Switzerland
18./19.11.2002
- M. Pedrozzi
3rd Harmonic System of the SLS Storage Ring – First Results
ESLS-RF Meeting, Villigen, Switzerland
28./29.11.2002
- T. Schilcher
Orbit Control at the SLS Storage Ring
26th Advanced ICFA Beam Dynamics Workshop on Nanometre-Size Colliding Beams, Nanobeam 2002, Lausanne, Switzerland
2.-6.9.2002
- T. Schilcher
Fast Orbit Feedback (FOFB) at the SLS
10th ESLS Workshop, PSI, Villigen, Switzerland
18./19.11.2002
- T. Schilcher
Fast Orbit Feedback (FOFB) at the SLS
2nd Int. Workshop on Beam Orbit Stabilization 2002, Spring-8, Hyogo, Japan
5.12.2002
- T. Schilcher
Strategies for Achieving Sub-micron Orbit Stability at SLS
2nd Int. Workshop on Beam Orbit Stabilization 2002, Spring-8, Hyogo, Japan
6.12.2002
- J.M. Schippers
Dose imaging in radiotherapy with an Ar-CF4 filled scintillating GEM
PSD6, Sixth Int. Conference on Position Sensitive Detectors, Leicester, UK
9.-13.09.2002
- J.M. Schippers
Beam-dynamics studies in a 250 MeV superconducting cyclotron with a particle tracking program, XXXIII European Cyclotron Progress Meeting, Warsaw/Kraków, Poland
18.-21.09.2002.
- V. Schlott
SLS Commissioning Results
ALS Accelerator Colloquium, Berkeley, USA
17.06.2002
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Stability and Dynamic Alignment at SLS
10th ESLS Workshop, PSI, Villigen, Switzerland
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- P. Schmelzbach
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8.-12.4.2002

P. Sigg
Reliable Cyclotron Design
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A. Streun
The SLS Femtosecond Project
 10th ESLS X Workshop, PSI, Villigen, Switzerland
 18.-19.11.2002

S. Teichmann
Dose Rate Measurements behind Different Shielding for 250 MeV Protons on a Thick Copper Target
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 10.-12.4.2002

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Issues of Shielding and Activation at the Paul Scherrer Institut
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Remote Handling and Shielding at PSI
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R. Dölling, L. Rezzonico, U. Frei, S. Benz, P.-A. Duperrex, M. Humbel, *Profile Measurement of Scanning Proton Beam for LiSoR Using Carbon Fibre Harps*, 10th Beam Instrumentation Workshop, Upton, New York, USA, 6.-9.5.2002.

K. Dreyer, F.Q. Wei, H. Umbricht, *Alignment of storage ring magnets at SLS*, 7th International Workshop on Accelerator Alignment, Spring-8 JAPAN, 11.-14.11.2002.

B. Kalantari, T. Korhonen, *Integration of UE212 Electromagnetic Double Undulator into the SLS Control System*, EPAC'02, Paris, France, 3.-7.6.2002.

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J.-L. Pochon, *The Surveying and Alignment for the PROSCAN Project*, Int. Workshop on Accelerator Alignment 2002 (IWAA'02), SPRing-8 (JASRI), Harima Science Garden City, Japan, 11.-14.11.2002.

L. Stingelin, M. Bopp, H. Fitze, C. Ng, K. Ko, *Beam-Cavity Interactions in High Current Cyclotrons*, ICAP-02, East Lansing MI, USA, 15.-18.10.2002.

V. Vrankovic, D.C. George, J.M. Schippers, *Ray tracing with the program TRACK (from beam transport magnets to cyclotrons)*, XXXIII European Cyclotron Progress Meeting, Warsaw/Kraków, Poland, 18.-21.09.2002.

WORKSHOPS

M. Muñoz, A. Streun
 10th European Synchrotron Light Source (ESLS-X) Workshop, Schloss Böttstein, Switzerland
 18./19.11.2002

M. Pedrozzi
 European Synchrotron Light Source Radio Frequency (ESLS-RF) Meeting, PSI Villigen, Switzerland
 28./29.11.2002

TEACHING ACTIVITIES

S. Adam

Ingenieurmathematik

Hochschule für Technik, Zürich

WS / SS 2002

J. Cherix

Elektronik

Technikerschule TS, Zürich

WS / SS 2002

D. Maden

LabVIEW Basics

EDV Ausbildung für Physiklaboranten, PSI

February 2002

M. Muñoz

Introduction to Accelerator Physics

Universidad Autonoma da Madrid

October 2002

L. Rivkin

Beam Dynamics with Synchrotron Radiation,

CERN Accelerator School, Sesimbra, Portugal

September 2002

P.K. Sigg

Technische Informatik

Hochschule für Technik, Zürich

WS / SS 2002

P.K. Sigg

Referee for Diploma Thesis Papers

Elektrotechnik & Informatik, Fachhochschule Aargau

2002

T. Stammbach

*Cyclotrons*Joint Universities Accelerator School, Archand,
France

January 2002

MEMBERSHIPS IN EXTERNAL COMMITTEES

W. Joho

- Superconducting Cyclotron at ENEA, Rome, Advisory Committee

U. Kalt

- Schweiz. Gesellschaft für Vakuumphysik, Member

A. Mezger

- Conferences on Accelerator and Large Experimental Physics Control System, Int. Scientific Advisory Committee

L. Rivkin

- European Physical Society Interdivisional Group on Accelerators, Chairman of the Board
- Editorial Board of Phys. Rev. ST-AB
- EPS12, Int. Program Committee
- PAC2003, Program Committee
- CERN Accelerator School, Program Committee
- Joint Universities Accelerator School, Program Committee
- SOLEIL, Machine Advisory Committee

W. Roser

- Swiss Society for Radiation Biology and Medical Physics, Board member
- Schweiz. Elektrotechnischer Verein, Technisches Komitee 62

V. Schlott

- DIPAC'2003, Scientific Programme Committee
- DIAMOND Light Source, UK, Technical Advisory Committee
- TESLA Collaboration Board
- TESLA Search Committee

P.A. Schmelzbach

- Int. Conferences on Cyclotrons and Their Applications, Advisory Committee
- European Cyclotron Progress Meetings, Advisory Committee
- "Cyclotrons 2004", Int. Program Committee

P.K. Sigg

- NEA/NSC/WPPT (Working Party on Partitioning & Transmutation), Subgroup for Accelerator Utilisation and Reliability
- Technical Cooperation Expert for IAEA, in Korea

E. Steiner

- ICFA-HB2002, Int. Advisory Committee

A. Wrulich

- Scientific Council for DESY
- DIAMOND Light Source, UK, Technical Advisory Committee (Chairman)
- BESSY II, Berlin, Germany, Scientific Advisory Committee
- ELETTRA, Sincrotrone Trieste, Italy, Machine Advisory Committee
- Australian Synchrotron, Int. Scientific Advisory Board
- LHC Cost & Schedule Committee
- 'Journal of Synchrotron Radiation', Co-Editor

AWARDS

A. Adelman

First Alvarez Fellow in Computational Science

Lawrence Berkeley Laboratory

PROFESSORSHIPS

A. Wrulich

Appointed Chair of the Accelerator Physics Dept.,
Ecole Polytechnique Fédérale Lausanne