

17 Publications

17.1 Research group of Prof. C. Amsler

Articles

- Study of f_0 decays into four neutral pions
A. Abele et al. (Crystal Barrel Collaboration)
Eur. Phys. Journal C 19 (2001) 667
- 4π -decays of scalar and vector mesons
A. Abele et al. (Crystal Barrel Collaboration)
Eur. Phys. Journal C 21 (2001) 261
- Branching ratios for $\bar{p}p$ annihilation at rest into two-body final states
A. Abele et al. (Crystal Barrel Collaboration)
Nucl. Phys A 679 (2001) 563
- A High Resolution Search for the Tensor Glueball Candidate $\xi(2230)$
C. Amsler et al. (Crystal Barrel Collaboration)
Phys. Lett. B 520 (2001) 175
- Proton-antiproton annihilation at 900 MeV/c into $\pi^0\pi^0\pi^0$, $\pi^0\pi^0\eta$ and $\pi^0\eta\eta$
C. Amsler et al. (Crystal Barrel Collaboration)
Eur. Phys. J. C 23 (2002) 29
- Design and test of pixel sensors for the CMS experiment
G. Bolla et al.
Nucl. Instr. Meth. in Physics Research A 461 (2001) 182
- Lorentz-angle in irradiated silicon
B. Henrich, R. Kaufmann
Nucl. Instr. Meth. in Physics Research A 477 (2002) 304
- Antihydrogen Production and Precision Spectroscopy with ATHENA / AD1
C. Amsler et al. (ATHENA Collaboration)
"The Hydrogen Atom, Precision Physics of Simple Atomic Systems", ed. S.G. Karshenboim et al., Springer Lecture Notes in Physics, Berlin 2001, p. 469-488
- Proton-antiproton annihilation into $\pi^0\pi^0\pi^0$, $\pi^0\pi^0\eta$ and $\pi^0\eta\eta$ at 900 MeV/c
C. Amsler
Proc. of the Int. Workshop XXIX on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg, ed. H. Feldmeier et al., GSI Pub. 2001, p. 18
- The ATHENA Antihydrogen Detector
C. Amsler
Proc. Int. Conf. on High Energy Physics, Budapest, Journal of High Energy Physics PRHEP-hep2001 (2001) 174
- New Results in Proton-Antiproton Annihilation and the Status of Glueballs
C. Amsler
Proc. Int. Conf. on High Energy Physics, Budapest, Journal of High Energy Physics PRHEP-hep2001 (2001) 270
- Detection of Antihydrogen with a Si- μ -strip and CsI-Crystal Detector at Cryogenic Temperature
C. Regenfus
Proc. of the XXXth Int. Conf. on High Energy Physics, Osaka, ed. C.S. Lim and T. Yamanaka, World Scientific (2001) 1225

Articles in press

- A high resolution silicon beam telescope
C. Amsler et al.
Nucl. Instr. Meth. in Physics Research A 480 (2002) 499
- Temperature dependence of pure CsI: scintillation light yield and decay time
C. Amsler et al.
Nucl. Instr. Meth. in Physics Research A 480 (2002) 492
- Meson Resonances in Proton-Antiproton Annihilation
C. Amsler
Proc. Int. Conf. on the Structure and Interactions of the Photon (PHOTON 2001),
Ascona, World Scientific, 2001
- Comment on “Protonium annihilation into $\pi^0\pi^0$ at rest in a liquid hydrogen target”
C. Amsler et al. (Crystal Barrel Collaboration)
Phys. Rev. D (2002)
- Sub MeV Particle Detection and Identification in the MUNU Detector
M. Avenier et al.
Nucl. Instr. Meth. in Physics Research A (2002)
- Non- $q\bar{q}$ mesons
C. Amsler
Eur. Phys. Journal (2002)
- The $\eta(1440)$, $f_1(1420)$, and $f_1(1510)$
M. Aguilar/Benitez, C. Amsler and A. Masoni
Eur. Phys. Journal (2002)
- Producing Slow Antihydrogen for a Test of CPT Symmetry with ATHENA
M.C. Fujiwara et al. (ATHENA Collaboration)
Preprint nucl-ex/0202020
Journal of Hyperfine Interactions (2002)
- Design, construction and performance of the cryogenic antihydrogen detector for ATHENA
C. Regenfus
Proc. 10th Int. Workshop on vertex detectors (VERTEX 2001), Brunnen, Switzerland,
2001

Diploma and PhD theses

- Development of Radiation Hard Pixel Sensors for the CMS Experiment
R. Kaufmann
Dissertation, Universität Zürich, 2001
- Temperature Dependence of Pure CsI between 77 K and 165 K and the Performance
of Wavelength Shifters
D. Grögler
Diplomarbeit, Universität Zürich, 2001

Invited Lectures

- C. Amsler
Contributed talk, Int. Conf. on High Energy Physics, Budapest, 13.7.01
“The ATHENA Antihydrogen Detector”

- C. Amsler
Contributed talk, Int. Conf. on High Energy Physics, Budapest, 13.7.01
“New Results in Proton-Antiproton Annihilation and the Status of Glueballs”
- C. Amsler
Invited talk, Int. Conf. on the Structure and Interactions of the Photon (PHOTON 2001), Ascona, 6.9.01
“Meson resonances in $\bar{p}p$ annihilation”
- N. Madsen
Contributed talk, 3rd Euroconf. on Atomic Physics at Accelerators (APAC01), Aarhus, 10.9.01
“Vertical blow up in a low current, stored, laser-cooled ion beam”
- C. Regenfus
10th Int. Workshop on vertex detectors (VERTEX 2001), Brunnen, 24.9.01
“Design, construction and performance of the cryogenic antihydrogen detector for ATHENA”
- C. Regenfus
Seminar, ETHZ, 20.11.01
“Detection of antihydrogen in the ATHENA experiment with a cold Si-microstrip and a pure CsI detector”

ATHENA Collaboration (2002):

M. Amoretti, C. Amsler, G. Bendiscioli, G. Bonomi, A. Bouchta, P. Bowe, C. Carraro, M. Charlton, M. Collier, M. Doser, V. Filippini, A. Fontana, M.C. Fujiwara, R. Funakoshi, P. Genova, A. Glauser, J. Hangst, R.S. Hayano, H. Higaki, M.H. Holzscheiter, O. Iannarelli, L. Jorgensen, D. Kleppner, V. Lagomarsino, R. Landua, C. Lenz Cesar, D. Lindelf, E. Lodi-Rizzini, M. Macri, N. Madsen, G. Manuzio, M. Marchesotti, P. Montagna, H. Pruys, C. Regenfus, P. Riedler, A. Rotondi, G. Rouleau, P. Salvini, G. Testera, D.P. van der Werf, A. Variola, T. Watson, T. Yamazaki, Y. Yamazaki

CRYSTAL BARREL Collaboration (2001):

C. Amsler, C.A. Baker, B.M. Barnett, C.J. Batty, M. Benayoun, A. Berdoz, P. Blüm, K. Braune, T. Case, K.M. Crowe, M. Doser, W. Dünnweber, D. Engelhardt, M.A. Faessler, P. Giarritta, R.P. Haddock, F.H. Heinsius, M. Heinzelmann, N.P. Hessey, P. Hidas, D. Jamnik, H. Kalinowsk, B. Kämmler, P. Kammel, J. Kisiel, E. Klempt, H. Koch, M. Kunze, U. Kurilla, M. Lakata, R. Landua, H. Matthäy, C.A. Meyer, F. Meyer-Wildhagen, L. Montanet, R. Ouared, K. Peters, B. Pick, M. Ratajczak, C. Regenfus, W. Roethel, U. Strobusch, M. Suffert, J.S. Suh, U. Thoma, I. Uman, S. Wallis-Plachner, D. Walther, U. Wiedner, K. Wittmack, Č. Zupančič.

17.2 Research group of Prof. H. Keller

Articles

- The phase diagram of high- T_c superconductors in the presence of dynamic stripes
A. Bussmann-Holder, A.R. Bishop, H. Büttner, T. Egami, R. Micnas, and K.A. Müller
J. Phys.: Condens. Matter **13**, L545-L551 (2001)
- Isotope effects in underdoped cuprate superconductors: A quantum critical phenomenon
T. Schneider and H. Keller
Phys. Rev. Lett. **86**, 4899-4902 (2001)

- An unusual phase transition to a second liquid vortex phase in the superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
F. Bouquet, C. Marcenat, E. Steep, R. Calemczuk, W.K. Kwok, U. Welp, G.W. Crabtree, R.A. Fisher, N.E. Phillips, and A. Schilling
Nature **411**, 448-451 (2001)
- Influence of Sr substitution on the structure, charge distribution and critical temperature of $\text{Y}(\text{Ba}_{1-x}\text{Sr}_x)_2\text{Cu}_4\text{O}_8$ single crystals
J. Karpinski, S. Kazakov, M. Angst, A. Miranov, M. Mali, and J. Roos
Phys. Rev. B **64**, 094518-1-12 (2001)
- Tilting mode relaxation in the electron paramagnetic resonance of isotope substituted $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4: \text{Mn}^{2+}$
A. Shengelaya, H. Keller, K.A. Müller, B.I. Kochelaev, and K. Conder
Phys. Rev. B **63**, 144513-1-9 (2001)
- Magnetic properties of $\text{RuSr}_2\text{RECu}_2\text{O}_8$ ($\text{RE} = \text{Gd}, \text{Eu}$) and $\text{Ru}_{1-x}\text{Sr}_2\text{GdCu}_{2+x}\text{O}_{8-y}$ superconductors
P.W. Klamut, B. Dabrowski, S.M. Mini, M. Maxwell, S. Kolesnik, J. Mais, A. Shengelaya, R. Khasanov, I. Savic, H. Keller, T. Graber, J. Gebhardt, P.J. Viccaro, and Y. Xiao
Physica C **364-365**, 313-319 (2001)
- Bulk experimental evidence of half-metallic ferromagnetism in doped manganites
Guo-meng Zhao, H. Keller, W. Prellier, and D.J. Kang
Phys. Rev. B **63**, 172411-1-4 (2001)
- Isotope effects and possible pairing mechanism in optimally doped cuprate superconductors
Guo-meng Zhao, V. Kirtikar, and D.E. Morris
Phys. Rev. B (Rapid Communications) **63**, 220506-1-4 (2001)
- Evidence for novel polaronic Fermi-liquid in doped manganites
A.S. Alexandrov, Guo-meng Zhao, H. Keller, B. Lorenz, Y.S. Wang, and C.W. Chu
Phys. Rev. B (Rapid Communications) **64**, 140404-1-7 (2001)
- Identification of the bulk pairing symmetry in high-temperature superconductors: Evidence for an extended s wave with eight line nodes
Guo-meng Zhao
Phys. Rev. B **64**, 024503-1-10 (2001)
- Unconventional isotope effects in the high-temperature cuprate superconductors
Guo-meng Zhao, H. Keller, and K. Conder
J. Physics: Condens. Matter **13**, R569 - R587 (2001)
- The attainable superconducting T_c in a model of phase coherence by percolating
D. Mihailovic, V.V. Kabanov, and K.A. Müller
Europhys. Lett. **57**, 254-259 (2002)
- Vortex-lattice melting in untwinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ for $H \perp c$
A. Schilling, U. Welp, W.K. Kwok, and G.W. Crabtree
Phys. Rev. B **65** 054505-1-7 (2002)
- ^{25}Mg NMR study of the MgB_2 superconductor
M. Mali, J. Roos, A. Shengelaya, and H. Keller
Phys. Rev. B (Rapid Communications) **65**, 100518-1-4 (2002)

Articles in press

- On the macroscopic *s*- and *d*-wave symmetry in cuprate superconductors
K.A. Müller
Philosophical Magazine
- High-temperature superconductors: Results and relations
K.A. Müller
Applied Physics A
- Implantation studies of keV positive muons in thin metallic films
E. Morenzoni, H. Glöckler, T. Prokscha, R. Khasanov, H. Luetkens, M. Birke, E.M. Forgan, Ch. Niedermayer, and M. Pleines
Nuclear Instruments and Methods B
- Oxygen isotope effect of the plane-copper NQR frequency in $\text{YBa}_2\text{Cu}_4\text{O}_8$
M. Mali, J. Roos, H. Keller, J. Karpinski, and K. Conder
Phys. Rev. B
- EPR of rare-earth-ions in the underdoped YBaCuO-compound
V.A. Ivanshin, M.R. Gafurov, I.N. Kurkin, M.P. Rodionova, and H. Keller
The Physics of Metals and Metallography
- Temperature and field dependence of the anisotropy of MgB_2
M. Angst, R. Puzniak, A. Wisniewski, J. Jun, S.M. Kazakov, J. Karpinski, J. Roos, and H. Keller
Phys. Rev. Lett.

Diploma and PhD theses

- Aufbau eines Differential-Thermoanalyse Kalorimeters für tiefe Temperaturen
Peter Morf
Diplomarbeit, Physik-Institut, Universität Zürich, 2001
- Rare-earth ion size dependencies of oxygen isotope effects on the charge ordering and superconducting transition temperatures in single-layer cuprates
Roland Renggli
Diploma thesis, Physik-Institut, Universität Zürich, 2001
- Search for Lutetium NQR in $\text{Y}_{1-x}\text{Lu}_x\text{Ba}_2\text{Cu}_4\text{O}_8$ compounds
Philipp Schneider
Diploma thesis, Physik-Institut, Universität Zürich, 2001

Conference reports

- EPR studies in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Experiment and theory
V.A. Ivanshin, M.V. Eremin, R.M. Eremina, H.-A. Krug von Nidda, T. Kurz, A. Loidl, and H. Keller
Specialized Colloque Ampere "ESR and Solid State NMR in High Magnetic Fields", Stuttgart, Germany, July 22-26, 2001
- Oxygen-isotope effect on the in-plane penetration depth in underdoped $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ as revealed by muon-spin rotation
R. Khasanov, A. Shengelaya, E. Morenzoni, I.M. Savic, K. Conder, and H. Keller
2001 Swiss Workshop on Materials with Novel Electronic Properties, Les Diablerets, Switzerland, October 1-3, 2001

- Oxygen isotope ($^{16}\text{O}/^{18}\text{O}$) effect on stripe formation and structural phase transitions in LaSrCuO compounds
M. Mali, R. Renggli, J. Roos, A. Schilling, Guo-meng Zhao, K. Conder, and H. Keller
2001 Swiss Workshop on Materials with Novel Electronic Properties, Les Diablerets, Switzerland, October 1-3, 2001
- Oxygen isotope ($^{16}\text{O}/^{18}\text{O}$) effect of the spin-pseudogap in $\text{YBa}_2\text{Cu}_4\text{O}_8$
M. Mali, J. Roos, H. Keller, K. Conder, and J. Karpinski
2001 Swiss Workshop on Materials with Novel Electronic Properties, Les Diablerets, Switzerland, October 1-3, 2001
- Oxygen isotope effect of the plane-copper NQR frequency in $\text{YBa}_2\text{Cu}_4\text{O}_8$
M. Mali, J. Roos, H. Keller, J. Karpinski, and K. Conder
Annual meeting of the Swiss Physical Society, Lausanne, Switzerland, February 28-March 3, 2002
- Microtorque magnetometry on $\text{YBa}_2\text{Cu}_4\text{O}_8$
S. Kohout, J. Roos, H. Keller, and J. Karpinski
Annual meeting of the Swiss Physical Society, Lausanne, Switzerland, February 28-March 3, 2002

Invited Lectures

- H. Keller
Probing high-temperature superconductivity with muons
Meson Science Laboratory, Institute of Material Structure Science, High Energy Accelerator Research Organization (KEK)
Tsukuba, Ibaraki, Japan, September 11, 2001
- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors and magnetoresistive doped manganites
Department of Applied Physics, University of Tokyo, Japan, September 14, 2001
- H. Keller
Probing high-temperature superconductivity with muons
Department of Advanced Materials Sciences, University of Tokyo, Japan, September 21, 2001
- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors
The Institute of Physical and Chemical Research (RIKEN), Wako, Saitama, Japan, September 22, 2001
- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors
Department of Physics, Graduate School of Science, Kyoto University, Japan, September 25, 2001
- H. Keller
Investigation of microscopic magnetic properties of high-temperature superconductors and magnetic systems with positive muons
The 8th Workshop on Oxide Electronics
Osaka University, Japan, September 27 - 28, 2001

- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors
Department of Physics, Faculty of Science, Kochi University, Japan, October 5, 2001
- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors
Department of Physics, Faculty of Engineering, Tokushima University, Japan, October 12, 2001
- H. Keller
Unconventional isotope effects in high-temperature cuprate superconductors and magnetoresistive doped manganites
10 Lectures as guest professor
Department of Physics, Faculty of Engineering, Tokushima University, Japan, October 1 -12, 2001
- H. Keller
Investigation of microscopic magnetic properties of high-temperature superconductors and magnetic systems with positive muons
MRS 2001 Fall Meeting Boston
Boston, USA, November 26 - 30, 2001
- A. Schilling
Specific heat of $\text{YBa}_2\text{Cu}_3\text{O}_7$ near $H//ab$ and in low magnetic fields
Critical Properties of Vortex Matter
Loen, Norway, June 21 - 24, 2001

17.3 Research group of Prof. P. F. Meier

Articles

- Analysis of NMR data on cuprate superconductors based on calculated hyperfine coupling energies
P. F. Meier
Physica C 364-365 (2001) 411
- First-Principles Calculation of Electric Field Gradients and Hyperfine Couplings in $\text{YBa}_2\text{Cu}_3\text{O}_7$
S. Renold, S. Pliberšek, E. P. Stoll, T. A. Claxton, and P. F. Meier
Eur. Phys. J. B 23 (2001) 3
- Electric field gradients from first-principles and point-ion calculations
E. P. Stoll, T. A. Claxton, and P. F. Meier
Phys. Rev. B 65 (2002) 064532
- Parallel random number generator for inexpensive configurable hardware cells
J. Ackermann, U. Tangen, B. Bödekker, J. Breyer, E. Stoll, and J. S. McCaskill
Computer Physics Communications 140 (2001) 293
- An efficient algorithm to determine fractal dimensions of point sets
R. M. Fuchsli, Y. Shen, P. F. Meier
Phys. Lett. A 285 (2001) 69

Diploma and PhD theses

- First-principles investigations of electronic, magnetic and structural properties of high-temperature superconductors
S. Pliberšek
PhD-thesis, University of Zurich (2001)

17.4 Research group of Prof. J. Osterwalder

Articles

- Surface states on clean and adsorbate-covered metal surfaces
J. Osterwalder, T. Greber, J. Kröger, J. Wider, H.-J. Neff, F. Baumberger
M. Hoesch, W. Auwärter, R. Fasel, P. Aebi
in *Physics of Low Dimensional Systems*, J. L. Morán-López, ed.
(Kluwer Academic / Plenum Publishers, 2001), p.245-255
- Influence of an atomic grating on a magnetic Fermi surface
T. Greber, W. Auwärter, J. Osterwalder
in *Physics of Low Dimensional Systems*, J. L. Morán-López, ed.
(Kluwer Academic / Plenum Publishers, 2001), p.411-417
- Electronic and atomic structure of the Cu/Si(111) ‘quasi-5x5’ overlayer
M. De Santis, M. Muntwiler, J. Osterwalder, G. Rossi, F. Sirotti, A. Stuck,
L. Schlapbach
Surf. Sci. 477 (2001) 179-190
- Coexisting inequivalent orientations of C₆₀ on Ag(001)
C. Cepek, R. Fasel, M. Sancrotti, T. Greber, J. Osterwalder
Phys. Rev. B 63 (2001) 125406-1-5
- Correlation effects and magnetism in 3d transition metals
J. Osterwalder
J. Electron Spectrosc. Relat. Phenom. 117-118 (2001) 71-88
- Temperature-dependent Fermi gap opening in the c(6x2)-C₆₀/Ag(001) two-dimensional superstructure
C. Cepek, I. Vobornik, A. Goldoni, E. Magnano, G. Selvaggi, J. Kröger, G. Panaccione,
G. Rossi, M. Sancrotti
Phys. Rev. Lett. 86 (2001) 3001-3004
- Probing the electronic states of band ferromagnets with photoemission
T. Greber
in *Band Ferromagnetism - Ground-State and Finite-Temperature Phenomena*, K. Baberschke, M. Donath, W. Nolting, eds.
Springer Lecture Notes in Physics 580 (2001), p. 94-110
- Fermi surfaces of the two-dimensional surface states on vicinal Cu(111)
F. Baumberger, T. Greber, J. Osterwalder
Phys. Rev. B 64 (2001) 195411-1-8
- Orientation of chiral heptahelicene C₃₀H₁₈ on copper surfaces: an x-ray photoelectron diffraction study
R. Fasel, A. Cossy, K.-H. Ernst, F. Baumberger, T. Greber, J. Osterwalder
J. Chem. Phys. 115 (2001) 1020-1027

- Design of a miniature picosecond low-energy electron gun for time-resolved scattering experiments
R. Karrer, H. Neff, M. Hengsberger, T. Greber, J. Osterwalder
Rev. Sci. Instrum. 72 (2001) 4404-4407
- Exploiting the photoelectron source wave with near-node photoelectron holography
T. Greber
J. Phys.: Condens. Matter 13 (2001) 10561-10576
- Räumliche Bilder von Atomen
J. Wider, T. Greber
Neue Zürcher Zeitung, Nr. 112 (2001) 75
- Imaging atom sites with near-node photoelectron holography
T. Greber, J. Wider, A. Verdini, A. Morgante, J. Osterwalder
Euro Phys. News 32 (2001) 172-175
- High-resolution photoemission study of the discommensurate (5.55x5.55) Cu/Si(111) surface layer
H.-J. Neff, I. Matsuda, M. Hengsberger, F. Baumberger, T. Greber, J. Osterwalder
Phys. Rev. B 64 (2001) 235415-1-9
- Binding and ordering of C_{60} on Pd(110): investigations at the local and mesoscopic scale
J. Weckesser, C. Cepek, R. Fasel, J. V. Barth, F. Baumberger, T. Greber, K. Kern
J. Chem. Phys. 115 (2001) 9001-9009

Articles in press

- The Fermi surface in a magnetic metal-insulator interface
T. Greber, W. Auwärter, M. Hoesch, G. Grad, P. Blaha, J. Osterwalder
Surf. Rev. Lett. (2002)
- Reduction of the magnetic moment at the h -BN/Ni(111) interface
T. Greber, W. Auwärter, G. Grad, P. Blaha, J. Osterwalder
Proceedings of the *Conference on Atomic Level Characterization (ALC'01)*, Nara, Japan (2002)
- Spin-polarized Fermi surface mapping
M. Hoesch, T. Greber, V. N. Petrov, M. Muntwiler, M. Hengsberger, W. Auwärter, J. Osterwalder
J. Electron Spectrosc. Relat. Phenom. (2002)
- Co on h -BN/Ni(111): from island to island-chain formation and Co intercalation
W. Auwärter, M. Muntwiler, T. Greber, J. Osterwalder
Surf. Sci. (2002)

Diploma and PhD Theses

- Applications and Developments in x-ray photoelectron diffraction: oxygen on rhodium and near-node photoelectron holography experiments
Joachim Wider
Ph. D. Thesis, Physik-Institut, Universität Zürich, 2001
- Electronic and structural aspects of metal on semiconductor surfaces and development of a time-resolved surface-structure probe
Hansjörg Neff
Ph. D. Thesis, Physik-Institut, Universität Zürich, 2001

Contributed conference presentations

- Surface state bands on vicinal Cu
F. Baumberger, M. Hengsberger (Poster)
Workshop on *Two-dimensional conductivity in surface states and monolayers*, Bad Honnef, Germany, 5.3.01
- L-gap surface states on vicinal Cu(111)
T. Greber
American Physical Society March Meeting, Seattle, USA, 15.3.01
- Atomically resolved three-dimensional images from surfaces
J. Wider
American Physical Society March Meeting, Seattle, USA, 15.3.01
- Electronic structure study of the Si(111) (5.55x5.55)-Cu surface by the Fermi surface mapping method
I. Matsuda
Japanese Physical Society Meeting, Tokyo, Japan, 27.3.01
- Design and testing of a picosecond low-energy electron gun
R. Karrer
SPG Jahrestagung, EMPA Dübendorf, 3.5.01
- Characterizing interfaces within nanostructures
T. Greber
SPG Jahrestagung, EMPA Dübendorf, 3.5.01
- Co on $h - BN/Ni(111)$: from island to island-chain formation and Co intercalation
W. Auwärter (Poster)
Scanning Tunneling Microscopy Conference (STM'01), Vancouver, Canada, 16.7.01
- Design of a complete photoemission experiment
M. Hoesch, M. Muntwiler, M. Hengsberger, T. Greber, J. Osterwalder (Poster)
8th International Conference on *Vacuum Ultraviolet Radiation Physics (VUV-XIII)*, Trieste, Italy, 24.7.01
- Electronic structure of the Si(001) (5x3.2)-Au surface
I. Matsuda
8th International Conference on *Vacuum Ultraviolet Radiation Physics (VUV-XIII)*, Trieste, Italy, 25.7.01

Invited Lectures

- T. Greber
Probing the dissociation of O_2 and N_2O on alkali metal surfaces with exoemission
Physical Chemistry Seminar, UCSD, San Diego, USA, 20.3.01
- T. Greber
Über die Benutzung von Photoelektronenwellen: von Vorwärtsstreuung bis zu Holographie mit atomarer Auflösung
Seminar am Institut für Experimentalphysik, TU Wien, 8.5.01
- T. Greber
Angle-scanned photoemission: from x-ray photoelectron diffraction (XPD) to near-node photoelectron holography and Fermi surface mapping
Seminar am MPI Stuttgart, 9.5.01

- M. Hoesch
COPHEE, the complete photoemission experiment
Journée photoémission de spin, LURE, Orsay, France, 18.5.01
- T. Greber
Untersuchung der magnetischen Tunnelbarriere $h-BN/Ni(111)$ mittels winkelaufgelöster Photoemission
Seminar im SFB *Grenzflächenbestimmte Materialien*, Universität des Saarlandes, Saarbrücken, 29.5.01
- J. Wider
Anwendungen und Entwicklungen in der Photoelektronenbeugung
Festkörperphysik-Seminar, ETH Zürich, 3.7.01
- F. Baumberger
Surface electronic structure of vicinal Cu(111): step-induced one-dimensional states and step-modified two-dimensional states
Workshop on Stepped Surfaces, Universität Erlangen-Nürnberg, 25.7.01
- T. Greber
k-resolved one- and two-photon photoemission around the Fermi level
8th International Conference on *Vacuum Ultraviolet Radiation Physics (VUV-XIII)*, Trieste, Italy, 26.7.01
- I. Matsuda
Electronic structure of the nano-structures (monolayer, quantum film, quantum wire) formed by noble metals on Si surfaces
Seminar am Institut de Physique, Université de Fribourg, 21.8.01
- J. Osterwalder
Interface and manybody effects in the electronic structure of Ni and Co: photoemission results
Seminar am MPI für Mikrostrukturforschung, Halle, Germany, 23.10.01
- M. Hoesch
Spin-polarized Fermi surface mapping
Experimental Science Discussion (XSD), SLS, PSI, 24.10.01
- T. Greber
Untersuchung mikroskopischer Prozesse mit Elektronen
Physik-Kolloquium, TU München, 25.10.01
- T. Greber
Exploring the Fermi surface of a magnetic metal-insulator interface with angle-resolved photoemission
Physics Seminar, Tokyo University, Japan, 6.11.01
- T. Greber
Metal adsorption and intercalation on $h-BN/Ni(111)$
Physics Seminar, Waseda University, Tokyo, Japan, 8.11.01
- T. Greber
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- T. Greber
L'exploration de la durée des processus microscopiques et - und was können wir darüber mit Elektronen lernen
Physik-Kolloquium, Université de Fribourg, 26.11.01

- T. Greber
Untersuchungen der Elektronenbewegung an einer spintronischen Grenzfläche
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- T. Greber
From 2π x-ray photoelectron diffraction to near-node photoelectron holography
Journée des surfaces et interfaces, Toulouse, France, 1.2.02

17.5 Research group of Prof. U. Straumann (for H1 publications see group of Prof. P. Truöl, Sec. 17.6)

Articles

- A triple GEM detector with two-dimensional readout
M. Ziegler, P. Sievers, U. Straumann
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- Study of CP -Violating Asymmetries in $B^0 \rightarrow \pi^+\pi^-, K^+\pi^-$ Decays.
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- Measurement of the Decays $B \rightarrow \pi K$ and $B \rightarrow \pi K^*$.
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- Measurement of CP -Violating Asymmetries in B^0 Decays to CP Eigenstates.
B. Aubert et al., Phys. Rev. Lett. 86 (2001) 2515
- Search for R-parity violating supersymmetry in dimuon and four-jets channel
V. M. Abazov et al., hep-ex/0111053

- Search for leptoquark pairs decaying to $\nu\nu + \text{jets}$ in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,
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V. M. Abazov *et al.*, Phys. Lett. B **525** (2002) 211
- Subjet multiplicity of gluon and quark jets reconstructed with the k(T) algorithm in p anti-p collisions
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- A search for the scalar top quark in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$
V. M. Abazov *et al.*, hep-ex/0108018
- Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$
V. M. Abazov *et al.*, Phys. Lett. B **517** (2001) 299
- A study of multiple jet production at transverse energy near 20-GeV
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- Search for leptoquark pairs decaying to $\nu\nu + \text{jets}$ in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$
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- Compact Frontend-Electronics and Bidirectional 3.3 Gbps Optical Datalink for Fast Proportional Chamber Readout
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hep-ex 0107064

Nuclear Instruments and Methods in Physics Research **A**

LHCb and D0 notes

- Test Beam Results on Inner Tracker Silicon Prototype Sensors
C.Bauer, T.Glebe, A.Ludwig, V.Pugatch, F.Sanchez, M.Schmelling (MPI für Kernphysik, Heidelberg)
F.Lehner, P.Sievers, O.Steinkamp, U.Straumann, A.Vollhardt, M.Ziegler (Universität Zürich)
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F.Lehner (Universität Zürich)
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C.Bauer, T.Glebe, V.Pugatch, M.Schmelling, B.Schwingenheuer (MPI für Kernphysik Heidelberg)
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- Revised z positions for tracking stations
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V.Pugatch (MPI für Kernphysik Heidelberg)
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P.Sievers, O.Steinkamp (Universität Zürich)
LHCb internal note 2001-035, March 2001
- The construction and performance of the 6-chip silicon ladders for the DZERO silicon main tracker
F. Lehner
D0-note-003846, March 2001
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Frank Lehner
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- The LHCb Silicon Inner Tracker
P. Sievers
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Firenze, July 04-06, 2001.
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- The D0 silicon microstrip tracker
Frank Lehner
10th International Workshop on Vertex Detectors 'Vertex 2001'
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- CDF/D0 Run2b upgrade silicon projects
Frank Lehner
10th International Workshop on Vertex Detectors 'Vertex 2001'
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- The LHCb Silicon Inner Tracker
U. Straumann
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Invited Lectures

- Status of the LHCb experiment
U. Straumann
9th International Symposium on Heavy Flavor Physics
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- St. Schlamminger
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Determination of the Gravitational Constant
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- St. Schlamminger
Determination of the Gravitational Constant Using a Beam Balance
Nuclear Physics Laboratory, University of Washington, Seattle, January 29, 2002.
- St. Schlamminger
Determination of the Gravitational Constant Using a Beam Balance
University of California, Irvine, January 31, 2002.
- The H1 Experiment at HERA
U. Straumann
Frühjahrstagung der Schweiz. Physikalischen Gesellschaft
Lausanne, 28. Februar 2002

- The Silicon Inner Tracker for LHCb
O. Steinkamp
8th international conference on instrumentation for colliding beam physics
Novosibirsk, Feb. 28 - Mar. 6, 2002
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Diploma and PhD Theses

- Development of a triple GEM detector for the LHCb experiment
Marcus Ziegler
Dissertation, Physik-institut, Universität Zürich, Januar 2002

17.6 Research group of Prof. P. Truöl (incl. H1 publications of group Prof. U. Straumann)

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- Di-jet Production in Charged and Neutral Current e^+p Interactions at High Q^2
H1-Collaboration**, C. Adloff *et al.*
DESY 00 – 143, hep-ex 0010016
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The European Physical Journal **C19** (2001), 289 - 311
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DESY 00 – 174, hep-ex 0012051
The European Physical Journal **C20** (2001), 29 - 49
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H1-Collaboration**, C. Adloff *et al.*
DESY 00 – 181, hep-ex 0012053
The European Physical Journal **C21** (2001), 33 - 61
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- A Large Acceptance, High Resolution Detector for Rare K^+ -decay Experiments
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- A New Measurement of K_{e4}^+ Decay and the s -Wave $\pi\pi$ Scattering Length
E865-Collaboration[†], S. Pislak *et al.*
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DESY 01 – 093, hep-ex 0107005
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- A Search for Leptoquark Bosons in e^-p Collisions at HERA
H1-Collaboration^{**}, C. Adloff *et al.*
DESY 01 – 094, hep-ex 0107038
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Physics Letters **B520** (2001), 183 - 190
- Measurement of $D^{*\pm}$ -Meson Production and F_2^c in Deep-Inelastic Scattering at HERA
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Physics Letters **B528** (2002), 199 -215
- $D^{*\pm}$ Meson Production in Deep-Inelastic Diffractive Interactions at HERA
H1-Collaboration^{**}, C. Adloff *et al.*
DESY 01 – 105, hep-ex 0108047
Physics Letters **B520** (2001), 191 - 203
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- New Results on Rare and Forbidden Semileptonic K^+ Decays
P. Truöl
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- Compact Frontend-Electronics and Bidirectional 3.3 Gbps Optical Datalink for Fast Proportional Chamber Readout
S. Lüders, R. Baldinger, D. Baumeister, K. Bösigler, R. Eichler, M. Feuerstack-Raible, C. Grab, S. Löchner, B. Meier, B.A. Schmid, U. Stange, S. Steiner, U. Straumann, S. Streuli, K. Szeker, and P. Truöl
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- Studies of Aging and HV Breakdown Problems during Development and Operation of MSGC and GEM Detectors for the Inner Tracking System of HERA-B
Y. Bagaturia, O. Baruth, H.B. Dreis, F. Eisele, I. Gorbunov, S. Gradl, W. Gradl, S. Hausmann, M. Hildebrandt, T. Hott, S. Keller, C. Krauss, B. Lomonosov, M. Negodaev, C. Richter, P. Robmann, B. Schmidt, U. Straumann, P. Truöl, S. Visbeck, T. Walter, C. Werner, U. Werthenbach, G. Zech, T. Zeuner, M. Ziegler
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J. Aysto, A. Baldini, A. Blondel, A. de Gouvea, J.R. Ellis, W. Fetscher, G.F. Giudice, K. Jungmann, S. Lola, V. Palladino, K. Tobe, A. Vacchi, A. van der Schaaf, K. Zuber
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- A Measurement of the t dependence of the Helicity Structure of Diffractive ρ Meson Electroproduction at HERA
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- A. van der Schaaf
Summary WG2, *Short-baseline Neutrino Physics and Rare Processes*
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- A. van der Schaaf
Searching for μ -e Conversion
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- A. van der Schaaf
SINDRUM II
Seminar at ETHZ, June 4 2001
- A. van der Schaaf
Testing Lepton Flavor Conservation
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- F. Sefkow
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- P. Truöl
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CERN, June 22, 2001
- A. van der Schaaf
Report and Plans of the Slow Muons WG,
ECFA Plenary Meeting, CERN, October 15-18 2001
- P. Truöl
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Conference reports

- Open beauty production at HERA
J. Kroseberg
hep-ex/0108052, Proc. 9th Int. Workshop on Deep Inelastic Scattering (DIS 2001),
Bologna, Italy, 27 Apr - 1 May 2001
- The Gluon Distribution xg and the Strong Coupling Constant α_s from Inclusive DIS
data by H1
R. Wallny
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2001)
- SINDRUM II
A. van der Schaaf
Proc. Int. Workshop on Neutrino factories based on Muon Storage Rings (Nufact'01),
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- Measurement and QCD interpretation of the deep inelastic ep scattering cross section by H1
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- Search for muon - electron conversion on gold
W. Bertl for the SINDRUM collaboration
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M. Hildebrandt
Proc. Int. Workshop on Aging Phenomena in Gaseous Detectors, DESY, Hamburg (October 2001), Nuclear Instruments and Methods in Physics Research **A**, in print
- Open Heavy Flavour Production at HERA
J. Kroseberg
Proc. Lake Louise Winter Institute on Fundamental Interactions, Lake Louise, Alberta, Canada (February 2002)
- Das Triggersystem der CIP Kammer bei H1
M. Urban
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- Deep-Inelastic Inclusive ep Scattering at Low x and a Determination of α_s
Rainer Wallny
Ph.D Thesis, Physik-Institut, Universität Zürich, 2001

† E865-collaboration:

R. Appel^{8,6}, G.S. Atoyan^{2,8}, B. Bassaleck⁵, D.R. Bergman⁸, N. Cheung⁶, S. Dhawan⁸, H. Do⁸, J. Egger³, S. Eilerts⁵, W.D. Herold³, V.V. Isakov^{2,8}, H. Kaspar³, D. Kraus⁶, D. Lazarus¹, P. Lichard, J. Lowe⁵, J. Lozano⁸, H. Ma¹, W. Majid⁸, S. Pislak^{7,8}, A.A. Poblaguev^{2,8}, P. Rehak¹, A. Sher⁶, J.A. Thompson⁶, P. Truöl^{7,8}, M.E. Zeller⁸

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