17 Publications

17.1 Research group of Prof. C. Amsler

Articles

- Observation of resonances in the reaction $\bar{p}p \to \pi^0\eta\eta$ at 1.94 GeV/c
  A. Abele et al. (Crystal Barrel Collaboration)
  Eur. Phys. Journal C8 (1999) 67
- $\bar{p}d$-annihilation at rest into $\pi^+\pi^-\pi^- p_{spectator}$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 450 (1999) 275
- Antiproton-proton annihilation at rest into $K^+K^-\pi^0$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 468 (1999) 178
- The ρ-mass, width and line shape in $\bar{p}p$ annihilation at rest into $\pi^+\pi^-\pi^0$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 469 (1999) 270
- Observation of Pontecorvo reactions with open strangeness: $\bar{p}d \to \Lambda K^0$ and $\bar{p}d \to \Sigma^0 K^0$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 469 (1999) 276
- Scalar mesons in the 1500 MeV mass region
  C. Amsler
  Proc. Workshop on Hadron Spectroscopy, Frascati Physics Series, Vol. XV (1999) 609
- Recent results from Crystal Barrel in $\bar{p}p \to K\bar{K}\pi$ and $\omega 4\pi$
  P. Giarritta
  Proc. LEAP 98 Conf., Villasimius, Nucl. Phys. A 655 (1999) 71c
- Strangeness production in Pontecorvo reactions on deuterium
  C. Regenfus
  Proc. LEAP 98 Conf., Villasimius, Nucl. Phys. A 655 (1999) 263c
- Antihydrogen production and precision experiments on trapped cold antihydrogen
  C. Regenfus
  Proc. Workshop on Exotic atoms, molecules and muon catalyzed fusion, Ascona, Hyperfine Interactions 119 (1999) 301
- Lorentz-angle measurement in irradiated silicon
  R. Kaufmann and B. Henrich
  Proc. of the ENDEASD Workshop (C. Claeys, Ed.), Santorin (1999) 167

Articles in press

- Test of $\bar{N}N$ potential models: isospin relations in $\bar{p}d$ annihilations at rest and the search for quasinuclear bound states
  A. Abele et al. (Crystal Barrel Collaboration)
  Eur. Phys. Journal C
- $\bar{p}p$-annihilation into ωX $(X = \pi^0, \eta, \eta')$ at 600, 1200 and 1940 MeV/c
  A. Abele et al. (Crystal Barrel Collaboration)
  Eur. Phys. Journal C

- Study of f_0 Decays into four Neutral Pions
  A. Abele et al. (Crystal Barrel Collaboration)
  Eur. Phys. Journal C
- Branching ratios for $\bar{p}p$ annihilation at rest into two-body final states
  A. Abele et al. (Crystal Barrel Collaboration)
  Nucl. Phys. A
- Search for New Mesons in Proton-Antiproton Annihilation into $\omega\pi^0\pi^0$ and $\omega\eta\pi^0$
  P. Giarritta
  Dissertation, Universität Zürich (2000)
- Hadron Spectroscopy
  C. Amsler
  Proc. XVth Particles and Nuclei Int. Conf., Uppsala (1999)
- Proton-antiproton annihilation into 6γ and 7γ
  C. Amsler
  Proc. 8th Int. Conf. on Hadron Spectroscopy, Beijing (1999), Nucl. Phys. A
- Lorentz-angle in irradiated silicon
  R. Kaufmann and B. Henrich
  Nucl. Instr. and Methods in Phys. Research A
- Pontecorvo reactions with strangeness production on deuterium
  C. Regenfus
  Proc. XVth Particles and Nuclei Int. Conf., Uppsala (1999)
- Study of the Performance of ATLAS Prototype Detectors using Analog LHC Frontend Electronics
  P. Riedler
  Proc. 5th Int. Conf. on Position-Sensitive Detectors, London (1999), Nucl. Instr. and Methods in Phys. Research A

Conference reports

- Study of scalar mesons in $\bar{p}p$ annihilation into $\eta\eta\pi$ at 900 MeV/c
  M. Heinzelmann
  Annual Meeting of the Swiss Physical Society, Montreux (2000)

Invited lectures

- C.Amsler
  Plenary talk, XVth Particles and Nuclei Int. Conf., Uppsala, 12.6.99
  "Hadron Spectroscopy"
- C. Amsler
  Invited talk, 8th Int. Conf. on Hadron Spectroscopy, Beijing, 23.8.99
  "Proton-antiproton annihilation at rest into $\omega\pi^0\pi^0$ and $\omega\eta\pi^0$"
- C. Amsler
  Invited talk, 8th Int. Conf. on Hadron Spectroscopy, Beijing, 23.8.99
  "Proton-antiproton annihilation into three neutral pseudoscalars at 900 MeV/c"
- R. Kaufmann
  Invited talk, European network on defect engineering of advanced semiconductor devices (ENDEASD), Santorin, 25.4.99
  "Lorentz-angle measurement in irradiated silicon"

- C. Regenfus
  Invited talk, XVth Particles and Nuclei Int. Conf., Uppsala, 15.6.99
  "Pontecorvo reactions with strangeness production on deuterium"
- P. Riedler
  Invited talk, 5th Int. Conf. on Position-Sensitive Detectors, University College, London, 13.9.99
  "Study of the Performance of ATLAS Prototype Detectors using Analog LHC Frontend Electronics"
- P. Riedler
  Seminarvortrag, Inst. f. Hochenergiephysik, Österr. Akademie der Wissenschaften, 23.3.00
  "Development and Status of the ATHENA detector"

17.2 Research group of Prof. R. Engfer

Articles

- Suche nach der Myon-Elektron-Konversion in Gold
  F. Riepenhausen
  PhD thesis, Zürich University, 1999.
- Results of the SINDRUM II experiment
  P. Wintz
  Proc. Lepton-Baryon 98, ed. H.V. Klapdor-Kleingrothaus and I.V. Krivosheina, Institute of Physics Publ., Bristol (1999) 534-546.
- The future of $\mu \to e\gamma$ at PSI
  A. van der Schaaf
  Proc. Lepton-Baryon 98, ed. H.V. Klapdor-Kleingrothaus and I.V. Krivosheina, Institute of Physics Publ., Bristol (1999) 547-566.

Conference reports

- Results from SINDRUM II
  P. Wintz
  Proc. 29th International Conference on High Energy Physics, ed. A. Astbury, D. Axen, J. Robinson, World Scientific, Singapore (1999) Part2, 1.

Invited lectures

- A. van der Schaaf
  seminar at DESY, February 2000
  "Lepton Flavor violation"
- P.Wintz
  seminar at Jülich, January 2000
  "Status of SINDRUM II"

17.3 Research group of Prof. H. Keller

Articles

- Flux-line lattice structure in untwinned $YBa_2Cu_3O_{7-x}$
  S.T. Johnson, E.M. Forgan, S.H. Lloyd, C.M. Aegerter, S.L. Lee, R. Cubitt, P.G. Kealey,

C. Ager, S. Tajima, A. Rykov, and D. McK. Paul
Phys. Rev. Lett. **82**, 2792-2795 (1999)

- Fluxoids and neutron polarisation effects
  E.M. Forgan, P.G. Kealey, T.M. Riseman, S.L. Lee, D.McK. Paul, C.M. Aegerter, R. Cubitt, P. Schleger, S.T. Johnson, A. Pautrat, and Ch. Simon
  Physica B **268**, 115-121 (1999)

- Temperature dependence of muon spin relaxation in $Pr_{1/2}Sr_{1/2}MnO_3$
  R.I. Grynszpan, I.M. Savić, S. Romer, X. Wan, J. Fenichel, C.M. Aegerter, H. Keller, D.R. Noakes, C.E. Stronach, A. Maignan, C. Martin, and B. Raveau
  Physica B **259-261**, 824-825 (1999)

- Stability of the vortex lattice in ET superconductors studied by μSR
  S.J. Blundell, S.L. Lee, F.L. Pratt, C.M. Aegerter, Th. Jestädt, B.W. Lovett, C. Ager, T. Sasaki, V.N. Laukhin, E.M. Forgan, and W. Hayes
  Synth. Met. **103 (1-3)**, 1925-1928 (1999)

- Specific heat of $YBa_2Cu_3O_{7-\delta}$ and $(La_{2-x}Sr_x)CuO_4$: Evidence for d-wave pairing
  N.E. Phillips, B. Buffetau, R. Calemczuk, K.W. Dennis, J.P. Emerson, R.A. Fisher, J.E. Gordon, T.E. Hargreaves, C. Marcenat, R.W. McCallum, A.S. O'Connor, A. Schilling, B.F. Woodfield, and D.A. Wright
  J. Superconductivity **12** (1), 105-111 (1999)

- Specific heat of $YBa_2Cu_3O_{7-\delta}$ and $(La_{2-x}Sr_x)CuO_4$: Evidence for d-Wave Pairing
  N.E. Phillips, R.A. Fisher, A. Schilling, B. Buffetau, T.E. Hargreaves, C. Marcenat, R. Calemczuk, A.S. O'Connor, and R.W. McCallum
  Physica B **259-261**, 546-547 (1999)

- Calorimetric study of the transitions between the different vortex states in $YBa_2Cu_3O_7$
  F. Bouquet, C. Marcenat, R. Calemczuk, A. Erb, A. Junod, M. Roulin, U. Welp, W.K. Kwok, G.W. Crabtree, N.E. Phillips, R.A. Fisher, and A. Schilling
  in: *Physics and Materials Science of Vortex States, Flux Pinning and Dynamics*, eds. R. Kossowsky *et al.*, NATO Science Series E, Vol. **356**, 1999 (Kluwer Academic) (p. 743)

- Experimental evidence for fast cluster formation of chain oxygen vacancies in $YBa_2Cu_3O_{7-\delta}$ being at the origin of the fishtail anomaly
  A. Erb, A.A. Manuel, M. Dhalle, F. Marti, J.-Y. Genoud, B. Revaz, A. Junod, D. Vasumathi, Sh. Ishibashi, A. Shukla, E. Walker, Ø. Fischer, R. Flükiger, R. Pozzi, M. Mali, and D. Brinkmann
  Solid State Commun. **112**, 245-249 (1999)

- Spin and charge dynamics in the Cu-O chains of $YBa_2Cu_4O_8$
  F. Raffa, M. Mali, A. Suter, A. Yu. Zavidonov, J. Roos, D. Brinkmann, and K. Conder
  Phys. Rev. B **60**, 3636-3642 (1999)

- Spin dynamics in the paramagnetic phase of $YBa_2Cu_3O_{6.12}$ as seen by Cu NMR
  R. Pozzi, M. Mali, D. Brinkmann, and A. Erb
  Phys. Rev. B **60**, 9650-9661 (1999)

- Angular-dependent torque magnetometry on single-crystal $HgBa_2CuO_{4+y}$ near the critical temperature

J. Hofer, T. Schneider, J.M. Singer, M. Willemin, H. Keller, C. Rossel, and J. Karpinski
Phys. Rev. B **60**, 1332-1339 (1999)

- High-pressure synthesis, crystal growth, phase diagrams, structural and magnetic properties of $Y_2Ba_4Cu_{6+n}O_{14+n}$, $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ and quasi-one-dimensional cuprates
J. Karpinski, G.I. Meijer, H. Schwer, R. Molinski, E. Kopnin, K. Conder, M. Angst, J. Jun, S. Kazakov, A. Wisniewski, R. Puzniak, J. Hofer, V. Alyoshin, and A. Sin
Supercond. Sci. Technol. **12**, R153-R181 (1999)

- High pressure crystal growth and physical properties of Hg-based superconductors and infinite-chain $A_{1-x}CuO_2$ compounds
J. Karpinski, H. Schwer, R. Molinski, G.I. Meijer, E. Kopnin, M. Angst, J. Hofer, R. Puzniak, and A. Wisniewski
in: *Ceramics: Getting into the 2000's, Part A, Advances in Science and Technology*, Vol. **13**, ed. P. Vincenzini (Techna srl Publ., Faenza 1999)

- Electron spin resonance and magnetic susceptibility suggest superconductivity in Na doped WO_3 samples
A. Shengelaya, S. Reich, Y. Tsabba, and K.A. Müller
Eur. Phys. J. B **12**, 13-15 (1999)

- Giant oxygen isotope effect on the spin glass transition in $La_{2-x}Sr_xCu_{1-z}Mn_zO_4$ as revealed by muon spin rotation
A. Shengelaya, Guo-meng Zhao, C.M. Aegerter, K. Conder, I.M. Savić, and H. Keller
Phys. Rev. Lett. **83**, 5142-5145 (1999)

- Oxygen isotope effects in manganites: Evidence for (bi)polaronic charge carriers
G. M. Zhao, H. Keller, R. L. Greene, and K. A. Müller
in: *Physics of Manganites*, ed. T. A. Kaplan and S. D. Mahanti (Kluwer Academic/Plenum publisher, 1999) pp. 221-241

- Isotope and pressure effects in manganites: Important experimental constraints on the physics of manganites
G. M. Zhao, K. Conder, H. Keller, and K. A. Müller
Phys. Rev. B **60**, 11914-11917 (1999)

- Oxygen isotope shift of the charge-stripe ordering temperature in $La_{2-x}Sr_xCuO_4$ from x-ray absorption spectroscopy
A. Lanzara, G. M. Zhao, N. L. Saini, A. Bianconi, K. Conder, H. Keller, and K. A. Müller
J. Phys.: Condens. Matter **11**, L541-L546 (1999)

- Magnetic field induced dimensional crossover phenomena in cuprate superconductors and their implications
T. Schneider and J.M. Singer
Physica C **313**, 188-196 (1999)

- Fundamental constraints for the mechanism of superconductivity in cuprates
T. Schneider and J.M. Singer
Eur. Phys. J. B **7**, 517-518 (1999)

- Magnetic field induced phase transitions in $YBa_2Cu_4O_8$
T. Schneider and J.M. Singer
Eur. Phys. J. B **8**, 331-334 (1999)

- Qunatum Monte Carlo Simulations of the Twodimensional Attractive Hubard Model: Phase Diagram and Spectral Properties
  J.M. Singer, T. Schneider, and P.F. Meier
  in: *Symmetry and Pairing in Superconductors*, eds. M. Ausloos and S. Kruchinin (Kluwer Academic Publisher, 1999) (pp. 41-70)

- Anisotropy of the magnetization discontinuity at the vortex-lattice melting in untwinned $YBa_2Cu_3O_{7-\delta}$
  A. Schilling, M. Willemin, C. Rossel, H. Keller, R.A. Fisher, N.E. Phillips, U. Welp, W.K. Kwok, R.J. Olsson, and G.W. Crabtree
  Phys. Rev. B **61**, 3592-3603 (2000)

- Influence of neutron-irradiation-induced defects on the flux pinning in $HgBa_2Ca_2Cu_3O_{8+x}$ single crystals
  A. Wisniewski, R. Puzniak, J. Karpinski, J. Hofer, R. Szymczak, M. Baran, F.M. Sauerzopf, R. Molinski, E.M. Kopnin, and J.R. Thompson
  Phys. Rev. B **61**, 791-798 (2000)

- Evidence for line nodes in the energy gap for $(La_{2-x}Sr_x)CuO_4$ from low-temperature specific-heat measurements
  R.A. Fisher, B. Buffetau, R. Calemczuk, K.W. Dennis, T.E. Hargreaves, C. Marcenat, R.W. McCallum A.S. O'Connor, N.E. Phillips, and A. Schilling
  Phys. Rev. B **61**, 1473-1476 (2000)

- Specific heat of Zn-doped $YBa_2Cu_3O_{6.95}$: Possible evidence for Kondo screening in the superconducting state
  D.L. Sisson, S.G. Doettinger, A. Kapitulnik, R. Liang, D.A. Bonn, and W.N. Hardy
  Phys. Rev. B **61**, 3604-3609 (2000)

- Electron spin resonance with $g_{eff} \simeq 4.2$ in $YBa_2Cu_3O_{6.35}$. The model of copper-oxygen chain fragments
  M.V. Eremin, R.M. Eremina, M.R. Gafurov, V.A. Ivanshin, I.N. Kurkin, S.P. Kurzin, H. Keller, and M. Gutmann
  JETP **90(2)**, 363-369 (2000)

- EPR in $La_{1-x}Ca_xMnO_3$: Relaxation and bottleneck
  A. Shengelaya, Guo-meng Zhao, H. Keller, K.A. Müller, and B.I. Kochelaev
  Phys. Rev. B **61**, 5888-5890 (2000)

- Separation of quadrupolar and magnetic contributions to spin–lattice relaxation in the case of a single isotope
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  J. Magn. Reson. **143**, 266-273 (2000)

Articles in press

- EPR of $YBa_2Cu_3O_{6.35}$: Models of paramagnetic centres with $g_{eff} \simeq 4.2$
  R. Eremina, M. Eremin, M. Gafurov, V. Ivanshin, I. Kurkin, S. Kurzin, H. Keller, and M. Gutmann
  Physica B

- High pressure crystal growth and properties of Hg-based superconductors and one-dimensional $A_{1-x}CuO_2$ (A=Sr,Ca,Ba) cuprates
  J. Karpinski, G.I. Meijer, H. Schwer, R. Molinski, E. Kopnin, M. Angst, A. Wisniewski, R. Puzniak, J. Hofer, and C. Rossel
  in: *Proceedings of the 2nd Polish-US Conference "Recent Developments in High Temperature Superconductivity"*, Karpacz, Poland, 1998; *Lecture Notes in Physics*, ed. J. Klamut *et al.* (Springer Verlag)

- Influence of irradiation-induced defects and chemical substitutions on the flux pinning in Hg-based single crystals and films
  A. Wisniewski, R. Puzniak, J.R. Thompson J. Karpinski, M. Angst, H. Schwer, J. Hofer, S. Kazakov, and R. Szymczak
  in: *Studies of High Temperature Superconductors*, ed. A. Narlikar, Volume **31** (Nova Science Publisher, New York, 2000)

- Oxygen isotope effect on the in-plane penetration depth in underdoped $La_{2-x}Sr_xCuO_4$ single crystals
  J. Hofer, K. Conder, T. Sasagawa, Guo-meng Zhao, M. Willemin, H. Keller, and K. Kishio
  Phys. Rev. Lett. (2000) (cond-mat/9912493)

- T. Schneider and J.M. Singer
  Phase Transition Approach to High Temperature Superconductivity (Imperial College Press, London, 2000)

Diploma and PhD theses

- Ultrasensitive torque magnetometry on high-Tc superconductors
  Michel Willemin
  Dissertation, Physik-Institut, Universität Zürich, 1999

Conference reports

- A possible rotation of the magnetization vector at the melting transition probed by torque magnetometry
  A. Schilling, M. Willemin, C. Rossel, H. Keller, R.A. Fisher, N.E. Phillips, U. Welp, W.K. Kwok, R.J. Olsson, and G.W. Crabtree
  1999 March Meeting of The American Physical Society, Atlanta, GA, USA, 23 March 1999

- Torque magnetometry on single-crystal high-T_c compounds near the critical temperature: a critical fluctuations approach
  J. Hofer, T. Schneider, J.M. Singer, M. Willemin, H. Keller, C. Rossel, J. Karpinski, and T. Sasagawa
  Swiss Workshop on Superconductivity and Materials with Novel Electronic Properties, Les Diablerets, Switzerland, 27-29 September, 1999

- Methods for the precise determination of the effective mass anisotropy ratio in high-T_c superconductors
  C. Rossel, M. Willemin, J. Hofer, and H. Keller
  Swiss Workshop on Superconductivity and Materials with Novel Electronic Properties, Les Diablerets, Switzerland, 27-29 September, 1999

- Charge degree of freedom and single-spin fluid model in $YBa_2Cu_4O_8$
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  Swiss Workshop on Superconductivity and Materials with Novel Electronic Properties, Les Diablerets, Switzerland, 27-29 September, 1999

- Direct evidence for two type charge carriers in $La_{2-x}Sr_xCuO_4$: An Electron Paramagnetic Resonance Study
  A. Shengelaya
  Swiss Workshop on Superconductivity and Materials with Novel Electronic Properties, Les Diablerets, Switzerland, 27-29 September, 1999

- Low-energy charge fluctuations in the presence of the pseudo spin gap in $YBa_2Cu_4O_8$
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  6th International Conference on Material and Mechanisms of Superconductivity and High Temperature Superconductors, Houston, USA, 20-25 February, 2000

- Chain charge fluctuations in $YBa_2Cu_4O_8$ detected via apex oxygen nuclear quadrupolar relaxation
  M. Mali, A. Suter, J. Roos, D. Brinkmann, H. Keller, and J. Karpinski
  6th International Conference on Material and Mechanisms of Superconductivity and High Temperature Superconductors, Houston, USA, 20-25 February, 2000

- Oxygen isotope effect on underdoped $La_{2-x}Sr_xCuO_4$ microcrystals measured by torque magnetometry
  J. Hofer, Guo-meng Zhao, M. Willemin, H. Keller, K. Conder, T. Sasagawa, and K. Kishio
  6th International Conference, Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Houston, USA, 20-25 February, 2000

- Torque magnetometry on single-crystal high temperature superconductors near the critical temperature: a scaling approach
  J. Hofer, T. Schneider, J.M. Singer, M. Willemin, H. Keller, T. Sasagawa, K. Kishio, K. Conder, and J. Karpinski
  6th International Conference, Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Houston, USA, 20-25 February, 2000

- Giant oxygen isotope effect on the spin glass transition in $La_{2-x}Sr_xCu_{1-z}Mn_zO_4$ as revealed by muon spin rotation
  A. Shengelaya, Guo-meng Zhao, C.M. Aegerter, K. Conder, I.M. Savic, and H. Keller
  18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

- Angular dependent magnetization discontinuity at the vortex-lattice melting: a comparison with high-resolution calorimetric data
  A. Schilling, M. Willemin, C. Rossel, H. Keller, R.A. Fisher, N.E. Phillips, U. Welp, W.K. Kwok, R.J. Olsson, G.W. Crabtree, and K. Kadowaki
  18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

- Vortex studies in heavy-ion irradiated $Bi_{2.15}Sr_{1.85}CaCu_2O_{8+\delta}$ probed by μSR and small-angle neutron scattering

F.Y. Ogrin, S.L. Lee, C. Ager, H. Keller, I.M. Savic, E.M. Forgan, S.H. Loyd, T. Riseman, R. Cubitt, and G. Wirth
18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

- Electrical transport in the ferromagnetic state of manganites: small-polaron metallic conduction at low temperatures
  Guo-meng Zhao, W. Prellier, and H. Keller
  18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

- Charge fluctuations in the normal state of $YBa_2Cu_4O_8$ observed by ^{17}O NMR
  M. Mali, J. Roos, A. Suter, D. Brinkmann, H. Keller, and J. Karpinski
  18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

- Oxygen isotope effect on underdoped $La_{2-x}Sr_xCuO_4$ microcrystals
  J. Hofer, Guo-meng Zhao, M. Willemin, H. Keller, K. Conder, T. Sasagawa, and K. Kishio
  18th General Conference of the Condensed Matter Division of the European Physical Society, Montreux, Switzerland, 13-17 March, 2000

Invited lectures

- A. Schilling
  Superconducting ceramics: materials of atoms, matter of vortices
  ETH Zürich, Switzerland, 30 April 1999

- H. Keller
  Vortexmaterie und Myonen in Supraleitern
  University of Zurich, Switzerland, 6 May, 1999

- A. Shengelaya
  Oxygen isotope effects in the manganates and cuprates studied by electron paramagnetic resonance
  Specialized Colloque Ampere, Pisa, Italy, 14-18 June, 1999

- A. Schilling
  The magnetization discontinuity at the vortex-lattice melting in $YBa_2Cu_3O_7$ for an extreme off-c-axis geometry and in low magnetic fields
  International Workshop on Vortex Dynamics in High-Temperature Superconductors, Stanford, CA, USA, 21 June, 1999

- M. Willemin
  Hochempfindliche Drehmoment-Magnetometrie an Hochtemperatur-Supraleitern
  CSEM, Zurich, 14. July, 1999

- M. Willemin
  Separation of the irreversibility line from the melting line in$YBa_2Cu_4O_7$ by an oscillating magnetic field
  Swiss Workshop on Superconductivity and Materials with Novel Electronic Properties, Les Diablerets, Switzerland, 27-29 September, 1999

- A. Schilling
  Superconducting ceramics: materials of atoms, matter of vortices
  Johann Wolfgang Goethe-Universität Frankfurt am Main, Germany, 16 August, 1999

- A. Shengelaya
  Giant oxygen isotope effect on the spin glass transition in $La_{2-x}Sr_xCu_{1-z}Mn_zO_4$ as revealed by muon spin rotation
  8^{th} International Conference on Muon Spin Rotation, Relaxation and Resonance, Les Diablerets, Switzerland, August 30 - September 3, 1999

- H. Keller
  Magnetische Flusslinien in Hochtemperatur-Supraleitern
  Physikalische Gesellschaft Zürich, Zurich, Switzerland, 4 November, 1999

- Guo-meng Zhao
  Experimental constraints on the physics of the cuprate superconductors
  Symposium on polarons and their condensation, University of Zurich, 10-11 November, 1999

- J. Hofer
  Studies of intrinsic magnetic properties of high temperature superconductors by means of torque magnetometry
  University of Zurich, Switzerland, 30 March, 2000

17.4 Research group of Prof. P. F. Meier

Articles

- Electroencephalograms in epilepsy: analysis and seizure prediction within the framework of Lyapunov theory
  H. R. Moser, B. Weber, H. G. Wieser and P. F. Meier
  Physica D **130**, 291-305 (1999)

- Cluster calculations of the hyperfine properties of copper compounds
  H. U. Suter, P. Hüsser, E. P. Stoll, S. Schafroth, and P. F. Meier
  Hyperfine Interactions, **120**, 137-140 (1999)

- Pre-ictal changes and EEG analyses within the framework of Lyapunov theory
  H. R. Moser, P. F. Meier, H. G. Wieser and B. Weber
  in Proceedings of the Workshop "Chaos in Brain?", p. 96-111, World Scientific Singapore, (1999)

- The structure of a Lyapunov spectrum can be determined locally
  H. R. Moser and P. F. Meier
  Physics Letters A **263**, 167-174 (1999)

- Cluster calculations of the hyperfine interactions in superconducting copper compounds
  P. F. Meier, T. A. Claxton, P. Hüsser, S. Pliberšek, and E. P. Stoll
  Z. Naturf., **55 a**, 247-255 (2000)

- First-principles calculations of hyperfine interactions in La_2CuO_4
  P. Hüsser, H. U. Suter, E. P. Stoll, and P.F. Meier
  Phys. Rev. B **61**, 1567-1579 (2000)

Articles in press

- Interpretation of nuclear quadrupole resonance spectra in doped La_2CuO_4
  S. Pliberšek and P. F. Meier
  Europhysics Letters

- Quasiparticle diffusion in tantalum using superconducting tunnel junctions
  T. Nussbaumer, P. Lerch, E. Kirk, A. Zehnder, R. Füchslin, P. F. Meier, and H. R. Ott
  Phys. Rev. B

Invited lectures

- P. F. Meier
  "Pre-ictal Changes and EEG Analyses within the framework of Lyapunov Theory"
  Invited talk, Interdisciplinary workshop on "Chaos in Brain ?", Bonn, 11. 3. 99

- P. F. Meier
  "Examples of Collaborations between Computational Physics, Computer Science, and Medicine"
  Übersichtsvortrag, Tagung der Schweiz. Phys. Gesellschaft, Bern, 25. 2. 99

- P. F. Meier
  "Cluster Calculations of the Electronic Structure of High-Temperature Superconducting Materials"
  Invited talk, XVth Internat. Symposium on Nuclear Quadrupole Interactions, Leipzig, 29. 7. 99

- P. F. Meier
  "Cluster Calculations of the Electronic Structure of High-Temperature Superconducting Materials"
  Invited talk, Symposium on Polarons and their Interaction, Zürich, 11. 11. 99

- P. F. Meier
  "Ab initio Approach to the Electronic Structure of High-Temperature Superconducting Materials"
  Seminar talk, Univ. of Notre Dame, South Bend (IN), 7. 12. 99

17.5 Research group of Prof. J. Osterwalder

Articles

- Controlled underdoping of cuprates using ultraviolet radiation
  P. Schwaller, S. Berner, T. Greber, J. Osterwalder
  Appl. Phys. Lett. 74 (1999) 1877-1879
- Correlation effects in the low-energy region of nickel photoemission spectra
  F. Manghi, V. Bellini, J. Osterwalder, T. J. Kreutz, P. Aebi, C. Arcangeli
  Phys. Rev. B 59 (Rapid Communication) (1999) R10409-R10412
- XPD and STM investigation of hexagonal boron nitride on Ni(111)
  W. Auwärter, T. J. Kreutz, T. Greber, J. Osterwalder
  Surf. Sci. 429 (1999) 229-236

- Interaction of gas-phase oriented N_2O with lithium metal: evidence for an Eley-Rideal mechanism
  M. Brandt, F. Kuhlmann, T. Greber, N. Böwering, U. Heinzmann
  Surf. Sci. 439 (1999) 49-58
- Production and characterization of Ti:sapphire thin films grown by reactive laser ablation with elemental precursors
  P. R. Willmott, P. Manoravi, J. R. Huber, T. Greber, T. A. Murray, K. Holliday
  Optics Lett. 24 (1999) 1581-1583
- Deposition of Ti:sapphire thin films by reactive pulsed laser ablation using liquid metals and oxygen
  P. Manoravi, P. R. Willmott, J. R. Huber, T. Greber
  Appl. Phys. A [Suppl.] 69 (1999) S865-S867
- X-ray photoelectron diffraction study of an anatase thin film: $TiO_2(001)$
  G. S. Herman, Y. Gao, T. T. Tran, J. Osterwalder
  Surf. Sci. 447 (2000) 201-211

Articles in press

- Electronic structure of K doped C_{60} monolayers on Ag(001)
  C. Cepek, M. Sancrotti, T. Greber, J. Osterwalder
  Surf. Sci. (2000)
- Angle-resolved photoemission study of clean and hydrogen saturated Mo(110)
  J. Kröger, T. Greber, J. Osterwalder
  Phys. Rev. B (2000)
- Full hemispherical photoelectron diffraction and Fermi surface mapping
  J. Osterwalder, T. Greber, E. Wetli, J. Wider, H.-J. Neff
  Prog. Surf. Sci. (2000)
- 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
  Proceedings of the *Workshop on Physics in Low Dimensions*, Oaxaca, Mexico, (Plenum Press, 2000)
- Influence of an atomic grating on a magnetic Fermi surface
  T. Greber, W. Auwärter, J. Osterwalder
  Proceedings of the *Workshop on Physics in Low Dimensions*, Oaxaca, Mexico, (Plenum Press, 2000)

Diploma and PhD Theses

- Structural analysis of hexagonal boron nitride on nickel (111) and additional cobalt clusters by angle-scanned photoelectron diffraction
  Matthias Muntwiler
  Diploma Thesis, Physik-Institut, Universität Zürich, 1999

Conference reports

- Fermi-Kanten als Probenthermometer
  J. Kröger
  Frühjahrstagung der Deutschen Physik. Gesellschaft, Münster, 26.3.99

- Surface structure and crystallinity of CVD grown anatase-TiO_2(001) by x-ray photoelectron diffraction
  J. Osterwalder
  Environmental Molecular Sciences Symposium on Physics and Chemistry of Oxide Surfaces, Pacific Northwest National Laboratory, Richland, WA, USA, 24.7.99
- Structure-bandstructure relationship for Co layers on Cu(111)
  E. Wetli, H.-J. Neff, T. Greber, J. Osterwalder (Poster)
  Sixth Int. Conf. on the Structure of Surfaces, Vancouver, Canada, 29.7.99
- Surface sensitivity of medium-energy electron diffraction (MEED)
  H.-J. Neff, E. Wetli, H. Schmid, M. Aeschlimann, J. Osterwalder (Poster)
  Sixth Int. Conf. on the Structure of Surfaces, Vancouver, Canada, 29.7.99
- Ultraviolet photoelectron diffraction from oriented CO molecules
  M. Hoesch
  18th European Conference on Surface Science, Vienna, 22.9.99
- Towards near-node photoelectron holography
  J. Wider (Poster)
  18th European Conference on Surface Science, Vienna, 23.9.99
- Towards near-node photoelectron holography
  T. Greber (Poster)
  Swiss Light Source Workshop, Brunnen, 29.10.99
- Spin-resolved Fermi surface mapping at SLS
  M. Hoesch (Poster, short talk (Poster Prize))
  Swiss Light Source Workshop, Brunnen, 29.10.99
- COPHEE, the complete photoemission experiment
  M. Hoesch
  Joint INFM, the Abdus Salam ICTP School on *Magnetism Investigated with Neutron Scattering and Synchrotron Radiation Techniques*,
  Trieste, 8.2.2000

Invited lectures

- T. Greber
  Structural characterization of interfaces with x-ray photoelectron diffraction
  Topical Conference on Microstructure and Surface Morphology Evolution in Thin Films, Trieste, 24.3.99
- J. Osterwalder
  Valence band photoemission, Fermi surface mapping and applications of photoelectron diffraction
  6-hours of Lecture at the *John Fuggle School on Synchrotron Radiation*,
  ICTP Trieste, 17.-21.5.99
- J. Osterwalder
  Photoelectron diffraction and Fermi surface mapping
  8th Symposium on Surface Physics, Trest Castle, Czech Republic, 1.7.99
- T. Greber
  Exploring microscopic processes with electrons
  Seminar, Van der Waals-Zeeman Institut, University of Amsterdam, 5.7.99

- J. Kröger
  Hydrogen and Oxygen on Mo(110): Are data from electron energy loss spectroscopy and angle-resolved photoelectron spectroscopy consistent?
  Max-Planck-Institut für Mikrostrukturforschung, Halle, 1.11.99
- J. Kröger
  Oberflächenphononen und elektronische Oberflächenzustände auf Mo(110): eine Studie mittels Elektronenenergieverlustspektroskopie und winkelaufgelöster Photoelektronenspektroskopie
  II. Physik. Institut der Rheinisch-Westfälischen Techn. Hochschule Aachen, 18.11.99
- J. Kröger
  Hydrogen and Oxygen on Mo(110): Giant Kohn anomalies and Fermi surface nesting
  Institut für Laser- und Plasmaphysik der Universität Essen, 19.11.99
- J. Kröger
  Adsorbatinduzierte Phononanomalie auf Mo(110)
  Physik-Institut der Universität Rostock, 23.11.99
- J. Kröger
  Adsorbatinduzierte Phononanomalie auf Mo(110)
  Institut für Oberflächenphysik und Mikrostrukturphysik,
  Techn. Universität Dresden, 24.11.99
- J. Osterwalder
  Surface states on clean and adsorbate-covered metal surfaces
  Workshop on *The Physics of Low Dimensions*, Oaxaca, Mexico, 17.1.2000
- T. Greber
  Magnetic coupling across a single layer tunnelling barrier: Co on h-BN/Ni(111)
  Workshop on *The Physics of Low Dimensions*, Oaxaca, Mexico, 18.1.2000

17.6 Research group of Prof. U. Straumann (for H1 publications see Sec. 17.7)

Articles

- Search for heavy neutrinos in the β-spectrum of ^{63}Ni
  E. Holzschuh, W. Kündig, L. Palermo, H. Stüssi, and P. Wenk
  Phys. Lett. B 451, 247 (1999).

Articles in press

- The β-spectrum of ^{35}S and search for the admixture of heavy neutrinos
  E. Holzschuh, L. Palermo, H. Stüssi, and P. Wenk
  Phys. Lett. B.

Conference reports

- Determination of the gravitational constant
  St. Schlamminger, E. Holzschuh, W. Kündig, F. Nolting, and J. Schurr
  Proceedings 220^{th} WE-Heraeus-Seminar,
  Testing Relativistic Gravity in Space – Gyroscopes, Clocks, and Interferometers
  (Springer, Heidelberg)

- Measurement of the Inclusive Deep Inelastic ep Scattering Cross Section at Low Q^2
  R. Wallny, H1 Collaboration
  To appear in the proceedings of the International Europhysics Conference HEP 99, Tampere, Finland, July 15 - 21, 1999
- Messung des tief-inelastischen Wirkungsquerschnitts bei kleinen Q^2
  R. Wallny, DPG Frühjahrstagung, Heidelberg, Germany, March 15 - 19, 1999

Invited lectures

- St. Schlamminger
  Determination of the gravitational constant
  Sommer school, Bad Honnef, Aug. 1999
- O. Steinkamp
  Running Experience with the Outer Tracker
  HERA-B Seminar, DESY, February 3, 1999
- O. Steinkamp
  A Honeycomb Tracking Detector for the HERA-B Experiment
  Seminar, Universität Heidelberg, February 8, 1999
- O. Steinkamp
  HERA-B and LHCb - Two Generations of Hadronic B Factories
  Workshop on B Physics at the Tevatron - Run II and Beyond, Fermilab, September 23-25, 1999
- O. Steinkamp
  Status and Results From HERA-B
  IIIrd Int. Conf. on B Physics and CP Violation, Taipei City/Taiwan, December 3-7, 1999, (to be published in World Scientific)
- O. Steinkamp
  HERA-B - Status and Perspectives
  NIKHEF Annual Scientific Meeting, Universiteit Utrecht, December 17, 1999
- U. Straumann
  Neuere Resultate von H1
  seminar Physikalisches Institut der Universität Basel, November 18, 1999
- M. Ziegler, P. Cwetanski, U. Straumann
  A triple GEM detector for LHCb
  Workshop on Micro-Pattern Gas Detectors, Orsay, France, June 28-30, 1999.
  LHCb PUBLIC Note, 99-024, June 30, 1999,
  http://lhcb.cern.ch/notes/postscript/99notes/99-024.ps

17.7 Research group of Prof. P. Truöl

Articles

- Charged Particle Cross Sections in Photoproduction and Extraction of the Gluon Density in the Photon
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 148, hep-ex 9810020
  The European Physical Journal **C10** (1999), 363 - 372

- Measurement of D^* Meson Cross Sections at HERA and Determination of the Gluon Density in the Proton
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 204, hep-ex 9812023
  Nuclear Physics **B545** (1999), 21 - 44

- Measurement of Internal Jet Structure in Di-jet Production in Deep Inelastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 210, hep-ex 9901010
  Nuclear Physics **B545** (1999), 3 - 20

- Charmonium Production in Deep Inleastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 026, hep-ex 9903008
  The European Physical Journal **C10** (1999), 373 - 393

- A Search for Leptoquark Bosons and Lepton Flavour Violation in e^+p Collisions at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 081, hep-ex 9907002
  The European Physical Journal **C11** (1999), 447 - 471

- Measurement of Transverse Energy Flow in Deep-Inelastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 091, hep-ex 9907027
  The European Physical Journal **C12** (2000), 595 - 607

- Measurement of Open Beauty Production at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 126, hep-ex 9909029
  Physics Letters **B467** (1999), 156 - 164

- Forward π^0-Meson Production at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 094
  Physics Letters **B462** (1999), 440 - 452

- A New Measurement of the Properties of the Rare Decay $K^+ \to \pi^+e^+e^-$
  E865-Collaboration†, R. Appel et al.
  hep-ex 9907045
  Physical Review Letters **83** (1999), 4482 - 4485

Articles in press

- Di-jet Rates in Deep-Inelastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 076
  The European Physical Journal **C** (2000), in print

- Measurement of Dijet Cross Sections in Low Q^2 and the Extraction of an Effective Parton Density for the Virtual Photon

H1-Collaboration**, C. Adloff et al.
DESY 98 – 205, hep-ex 9812024
The European Physical Journal **C** (2000), in print.

- $K^+ \to \pi^+\mu^-\mu^+$ in E865 at BNL
  E865 Collaboration†, Julia A. Thompson et al.
  hep-ex 9904026
  Proc. 17^{th} Int. Workshop on Weak Interactions and Neutrinos (WIN 99), Cape Town, South Africa, 24-30 Jan 1999.

- Elastic Electroproduction of ρ Mesons at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 10, hep-ex 9902019
  The European Physical Journal **C** (2000), in print.

- Measurement of Neutral and Charged Current Cross Sections in Positron-Proton Collisions at Large Momentum Transfer
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 107, hep-ex 9908059
  The European Physical Journal **C** (2000), in print.

- A New Measurement of the Rare Decay $K^+ \to \pi^+\mu^+\mu^-$
  E865-Collaboration†, H. Ma et al.
  hep-ex 9910047
  Physical Review Letters **84** (2000), in print.

- Investigation of Power Corrections Event Shape Variables Measured in Deep-Inelastic Scattering
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 193, hep-ex 9912052
  The European Physical Journal **C** (2000), in print.

- The H1 Silicon Vertex Detector
  D. Pitzl, O. Behnke, M. Biddulph, K. Bösiger, R. Eichler, W. Erdmann, K. Gabathuler, J. Gassner, W.J. Haynes, R. Horisberger, M. Kausch, M. Lindström, H. Niggli, G. Noyes, P. Pollet, S. Steiner, S. Streuli, K. Szeker, and P. Truöl
  hep-ex 0002044
  submitted to Nuclear Instruments and Methods (2000).

- Search for Compositeness, Leptoquarks and Large Extra Dimensions in eq Contact Interactions at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 00 – 027, hep-ex 0003002
  submitted to Physics Letters **B** (2000).

- Measurement of Di-jet Cross Sections in Photoproduction and Photon Structure H1-Collaboration**, C. Adloff et al.
  DESY 00 – 035, hep-ex 000311
  submitted to Physics Letters **B** (2000).

- An Improved Limit on the Rate of the Decay $K^+ \to \pi^+\mu^+e^-$
  E865-Collaboration†, R. Appel et al.

hep-ex 00030000
submitted to Physical Review Letters.

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P. Marage[4], J. Marks[13], R. Marshall[21], H.-U. Martyn[1], J. Martyniak[6], S.J. Maxfield[18], A. Mehta[18], K. Meier[14], P. Merkel[10], F. Metlica[12], H. Meyer[33], J. Meyer[10], P.-O. Meyer[2], S. Mikocki[6], D. Milstead[18], T. Mkrtchyan[34], R. Mohr[25], S. Mohrdieck[11], M.N. Mondragon[7], F. Moreau[27], A. Morozov[8], J.V. Morris[5], K. Müller[13], P. Murín[16,42], V. Nagovizin[23], B. Naroska[11], J. Naumann[7], Th. Naumann[35], G. Nellen[25], P.R. Newman[3], T.C. Nicholls[5], F. Niebergall[11], C. Niebuhr[10], O. Nix[14], G. Nowak[6], T. Nunnemann[12], J.E. Olsson[10], D. Ozerov[23], V. Panassik[8], C. Pascaud[26], G.D. Patel[18], E. Perez[9], J.P. Phillips[18], D. Pitzl[10], R. Pöschl[7], I. Potachnikova[12], B. Povh[12], K. Rabbertz[1], G. Rädel[9], J. Rauschenberger[11], P. Reimer[29], B. Reisert[25], D. Reyna[10], S. Riess[11], E. Rizvi[3], P. Robmann[37], R. Roosen[4], A. Rostovtsev[23], C. Royon[9], S. Rusakov[24], K. Rybicki[6], D.P.C. Sankey[5], J. Scheins[1], F.-P. Schilling[13], P. Schleper[13], D. Schmidt[33], D. Schmidt[10], S. Schmitt[10], L. Schoeffel[9], A. Schöning[36], T. Schörner[25], V. Schröder[10], H.-C. Schultz-Coulon[10], K. Sedlák[29], F. Sefkow[37], V. Shekelyan[25], I. Sheviakov[24], L.N. Shtarkov[24], G. Siegmon[15], P. Sievers[13], Y. Sirois[27], T. Sloan[17], P. Smirnov[24], V. Solochenko[23], Y. Soloviev[24], V. Spaskov[8], A. Specka[27], H. Spitzer[11], R. Stamen[7], J. Steinhart[11], B. Stella[31], A. Stellberger[14], J. Stiewe[14], U. Straumann[37], W. Struczinski[2], M. Swart[14], M. Taševský[29], V. Tchernyshov[23], S. Tchetchelnitski[23], G. Thompson[19], P.D. Thompson[3], N. Tobien[10], D. Traynor[19], P. Truöl[37], G. Tsipolitis[36], J. Turnau[6], J.E. Turney[19], E. Tzamariudaki[25], S. Udluft[25], A. Usik[24], S. Valkár[30], A. Valkárová[30], C. Vallée[22], P. Van Mechelen[4], Y. Vazdik[24], S. von Dombrowski[37], K. Wacker[7], R. Wallny[37], T. Walter[37], B. Waugh[21], G. Weber[11], M. Weber[14], D. Wegener[7], A. Wegner[25], T. Wengler[13], M. Werner[13], G. White[17], S. Wiesand[33], T. Wilksen[10], M. Winde[35], G.-G. Winter[10], C. Wissing[7], M. Wobisch[2], H. Wollatz[10], E. Wünsch[10], A.C. Wyatt[21], J. Žáček[30], J. Zálešák[30], Z. Zhang[26], A. Zhokin[23], F. Zomer[26], J. Zsembery[9] and M. zur Nedden[10]

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