17 Publications

17.1 Research group of Prof. C. Amsler

Articles

- Proton-Antiproton Annihilation and Meson Spectroscopy with the Crystal Barrel
  C. Amsler
  Rev. Mod. Phys. 70 (1998) 1293
- Review of Particle Physics
  C. Caso et al. (Particle Data Group)
  Eur. Phys. Journal 3 (1998)
- Particle Physics Booklet
  C. Caso et al. (Particle Data Group)
  Springer (1998)
- Exotic $\eta\pi$ State in $\bar{p}d$ Annihilation at Rest into $\pi^-\pi^0\eta p_{spectator}$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 423 (1998) 175
- $\bar{p}p$ annihilation at rest into $K_L K^\pm \pi^\mp$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Rev. D 57 (1998) 3860
- Evidence for a $\pi\eta$-P-wave in $\bar{p}p$-annihilations at rest into $\pi^0\pi^0\eta$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B 446 (1999) 349
- Evidence for $a_0(1450) \to K\overline{K}$ in $\bar{p}p$ annihilation at rest
  M. Heinzelmann
  Proc. of Hadron '97 Conf., AIP Conf. Proc. 432 (1998) 95
- Two-body decays of $f_0(1500)$
  S. Spanier
  Proc. High Energy Physics Conference, Jerusalem, 1997

Articles in press

- 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
- $\bar{p}d$ annihilation at rest into $\pi^+\pi^-\pi^-p_s$
  A. Abele et al. (Crystal Barrel Collaboration)
  Phys. Lett. B

Conference reports

- Recent results from Crystal Barrel in $K\bar{K}\pi$ and $\omega 4\gamma$
  P. Giarritta
  Proc. LEAP '98 Conf., Villasimius, Sardinia
- Strangeness Production in Pontecorvo Reactions on Deuterium
  C. Regenfus
  Proc. LEAP '98 Conf., Villasimius, Sardinia

- Antihydrogen production and precision experiments on trapped cold antihydrogen
  C. Regenfus
  Proc. Workshop on Exotic atoms, molecules and muon catalyzed fusion, Ascona, Hyperfine Interactions (1998)

Invited Lectures

- C. Amsler
  Seminar, Universität Bern, 8.5.98
  "Exotic mesons in $\bar{p}$-nucleon annihilation"
- C. Amsler
  Colloque, CEA Saclay, 12.12.98
  "Mésons exotiques dans l'annihilation $\bar{p}$-nucléon"
- C. Amsler
  Invited talk, Workshop on Hadron Spectroscopy, Frascati, 12.3.99
  "The 1500 - 1700 MeV mass region"
- P. Giarritta
  Invited contribution, LEAP '98 Conf., Villasiumius, 9.9.98
  "Recent results from Crystal Barrel in $K\bar{K}\pi$ and $\omega 4\gamma$"
- R. Kaufmann
  Invited contribution, Schweizer-CMS-Vollversammlung, PSI, 8.2.99
  "Pixel sensor development: Lorentz angle in irradiated silicon and current design studies"
- F. Ould-Saada
  Séminaire, Collège de France, Paris, 23.2.99
  "Est-ce que les neutrinos ont des propriétés électromagnétiques?"
- F. Ould-Saada
  Seminar, University of Bergen, Norway, 1.3.99
  "A story about particles and interactions"
- C. Regenfus
  Invited contribution, Workshop on Exotic atoms, molecules and muon catalyzed fu+ Ascona, 24.7.98
  "Hydrogen Production and Precision Experiments with ATHENA"
- C. Regenfus
  Invited contribution, LEAP '98 Conf., Villasiumius, 10.9.98
  "Pontecorvo Reactions with Strangeness Production on Deuterium"

17.2 Research group of Prof. Brinkmann

Articles

- Wide frequency range ^{31}P relaxation in the ionic conductor $LiPO_3$
  S. Berger, J. Roos, A. Zavidonov, and D. Brinkmann
  Solid State Nuclear Magnetic Resonance 10 (1998) 197

- Spin Gap, Electronic Crossover, and Charge Density Waves in Y–Ba–Cu–O Superconductors
  D. Brinkmann
  Zeit. f. Naturforschung 53a (1998) 488

- Evolution of antiferromagnetic short-range order with doping in high-T_c superconductors
  A. Yu. Zavidonov and D. Brinkmann
  Phys. Rev. B 58 (1998) 12486

- Low energy excitation in the infinite-layer antiferromagnet $Ca_{0.85}Sr_{0.15}CuO_2$
  F. Raffa, M. Mali, J. Roos, D. Brinkmann, M. Matsumura, and K. Conder
  Phys. Rev. B 58 (1998) 2724

- Mixed Magnetic and Quadrupolar Relaxation in the Presence of a Dominant Static Zeeman Hamiltonian
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  J. Phys.: Condensed Matter 10 (1998) 5877

- Isotope dependence of the spin gap in $YBa_2Cu_4O_8$ as determined by Cu NQR relaxation
  F. Raffa, T. Ohno, M. Mali, J. Roos, D. Brinkmann, K. Conder, and M. Eremin
  Phys. Rev. Lett. 81 (1998) 5912

- ^{31}P NMR relaxation in glassy $0.35LiF \cdot 0.65LiPO_3$
  S. Berger, J. Roos, A. Yu. Zavidonov, D. Brinkmann
  Solid State Ionics 112 (1998) 87

- The Mysterious Spin Gap in High-Temperature Superconductors: New NMR/NQR Studies
  D. Brinkmann
  Appl. Magn. Reson. 15/2 (1998) 197

- New aspects of NMR studies in solid electrolytes
  D. Brinkmann
  In: *Solid State Ionics - Science and Technology*, Proc. 6th Asian Conference on Solid State Ionics, New Delhi, India World Scientific (1998) 93

- Interplane electronic spin polarization transfer in the superconducting state of $Y_2Ba_4Cu_7O_{15}$ as revealed by NQR spin-echo double resonance
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  Phys. Rev. Lett. 82 (1999) 1309

Articles in press

- Experimental evidence for fast cluster formation of chain oxygen vacancies in $YBa_2Cu_3O_{7-\delta}$ being at the origin of the fishtail anomaly
  Andreas Erb, Alfred A. Manuel, Marc Dhalle, Frank Marti, Jean-Yves Genoud, Bernard Revaz, Alain Junod, Dharmavaram Vasumathi, Shoji Ishibashi, Abhay Shukla, Eric Walker, Øystein Fischer, René Flükiger, Riccardo Pozzi, Mihael Mali, and Detlef Brinkmann
  Phys. Rev. Lett.

- Temperature dependence of the sublattice magnetization of the antiferromagnetic state in high-Tc parent compounds
  M. Matsumura, F.Raffa, and D. Brinkmann
  Phys. Rev. B

- Temperature dependence of the sublattice magnetization of the antiferromagnetic state in high-Tc parent compounds
  M. Matsumura, F.Raffa, and D. Brinkmann
  Phys. Rev. B

- 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

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

Conference reports

- ^{31}P MAS studies of superionic xLiF$\cdot(1-x)$LiPO$_3$ glasses
  S. Berger, M. Foglia, J. Roos, and D. Brinkmann
  Joint 28th AMPERE - 13th ISMAR Conference, Berlin, August 2-7, 1998

- High-Pressure NMR in the infinite-layer antiferromagnet $Ca_{0.85}Sr_{0.15}CuO_2$
  M. Igarashi, U. Lehmann, M. Mali, J. Roos, and D. Brinkmann
  Joint 28th AMPERE - 13th ISMAR Conference, Berlin, August 2-7, 1998

- NMR in metals at high pressure
  J. Roos
  Workshop: *NMR in Electronic Conductors*, Mijoux (France), September 20 - 24, 1998

- Isotope dependence of the spin gap in $YBa_2Cu_4O_8$ as determined by ^{63}Cu NQR spin-lattice relaxation
  F. Raffa, T. Ohno, M. Mali, J. Roos, D. Brinkmann, K. Conder, and M. Eremin
  Colloquium on *Magnetic Resonance in High-T_c Superconductors*, Engelberg, January 17 - 21, 1999

- Luttinger liquid and magnetic properties of chains in high-T_c superconductors
  A. Yu. Zavidonov
  Colloquium on *Magnetic Resonance in High-T_c Superconductors*, Engelberg, January 17 - 21, 1999

- Interplane electronic spin polarization transfer in the superconducting state of $Y_2Ba_4Cu_7O_{15}$ as revealed by NQR spin-echo double resonance
  A. Suter, M. Mali, J. Roos, and D. Brinkmann
  Colloquium on *Magnetic Resonance in High-T_c Superconductors*, Engelberg, January 17 - 21, 1999

- Some features of coexistence superconductivity and CDW in bilayered cuprates
  I.A. Larionov and M.V. Eremin
  Colloquium on *Magnetic Resonance in High-T_c Superconductors*, Engelberg, January 17 - 21, 1999

- Magnetic properties of the bilayered antiferromagnet $YBa_2Cu_3O_{6.12}$ in the paramagnetic phase observed by Cu NMR
  R. Pozzi, M. Mali, and D. Brinkmann

Colloquium on *Magnetic Resonance in High-T_c Superconductors*, Engelberg, January 17 - 21, 1999

Invited Lectures

- D. Brinkmann
  The mysterious spin–gap in high–temperature superconductors
  Congress AMPERE, Berlin, 2 – 7 August, 1998

- D. Brinkmann
  Eight lectures on "NMR studies in superionic conductors, metals, antiferromagnets, and high–temperature superconductors"
  delivered as Pandit Jawaharlal Nehru Chair Professor,
  Dept. of Physics, University of Hyderabad, India, August 1998

- D. Brinkmann
  Nine lectures on "NMR in solids"
  delivered as Visiting Professor
  Dept. of Physics, Indian Institute of Sciences, Bangalore, India, September 1998

- D. Brinkmann
  Antiferromagnetic parent compounds of high-T_c superconductors
  Dept. of Physics, Indian Institute of Technology, Madras, 14 September 1998

- D. Brinkmann
  From antiferromagnets to high-T_c superconductors
  Symposium "Correlated Electron Systems and Quantum Magnetism"
  Indian Institute of Sciences, Bangalore, 14 - 16 September 1998

- D. Brinkmann
  New aspects of NMR studies in solid electrolytes
  6th Asian Conference on Solid State Ionics, New Delhi, India 29 Nov. - 4 Dec. 1998

- D. Brinkmann
  The various energy gaps and the problem of interplanar coupling in high–temperature superconductors
  Colloquium, Institute of Physics, Bhubaneswar (India), 7 Dec. 1998

- D. Brinkmann
  The various energy gaps and the problem of interplanar coupling in high–temperature superconductors
  Colloquium, Saha Institute of Nuclear Physics, Calcutta, 9 Dec. 1998

- D. Brinkmann
  Knight shift and self-diffusion in alkali metals at high pressure
  Seminar, Saha Institute of Nuclear Physics, Calcutta, 10 Dec. 1998

- D. Brinkmann
  How to study problems in solid state physics by NMR
  10. Edgar Lüscher Seminar 1999
  Klosters–Serneus, 6–11 February 1999

- D. Brinkmann
  Controversial topics in high–temperature superconductors: opinions of an NMR/NQR fan
  Colloquium, City University of New York, 9 March 1999

- D. Brinkmann
  The origin of the spin–gap and the interplane coupling in cuprate superconductors: new insights by NMR
  Colloquium, State University of New York at Albany, 12 March 1999

17.3 Research group of Prof. R. Engfer

Articles

- Improved limit on the branching ratio of $\mu^- \to e^+$ conversion on titanium
  J. Kaulard, C. Dohmen, H. Haan, W. Honecker, D. Junker, G. Otter, S. Starlinger, P. Wintz, J. Hofmann, W. Bertl, J. Egger, B. Krause, S. Eggli, R. Engfer, Ch. Findeisen, E.A. Hermes, T. Kozlowski, C.B. Niebuhr, M. Rutsche, H.S. Pruys, A. van der Schaaf
  Physics Letters B 422 (1998)334-338
- The large, low mass Al-CFC-Aramid compound vacuum chamber for the Sindrum II $\mu - e$-experiment at PSI (design, testing and operation)
  Ermin A. Hermes, Felix Rosenbaum, Heinz Peter Wintz
  Nucl. Instr. and Methods in Phys. Research A 413(1998)185-190
- New Bounds from a Search for Muonium to Antimuonium Conversion
  L. Willmann, P.V. Schmidt, H.P. Wirtz, R. Abela, V. Baranov, J. Bagaturia, W. Bertl, R. Engfer, A. Großmann, V.W. Hughes, K. Jungmann, V. Karpuchin, I. Kisel, A. Korenchenko, S. Korenchenko, N. Kravchuk, N. Kuchinsky, A. Leuschner, V. Meyer, J. Merkel, A. Moiseenko, D. Mzavia, G. zu Putlitz, W. Reichart, I. Reinhard, D. Renker, T.Sakhelashvilli, K. Träger, and H.K. Walter
  Phys. Rev. Letters 82(1999)49-52

Articles in press

- Search for $\mu^- \to e^-$ Conversion an Titanium
  S. Eggli, R. Engfer, Ch. Findeisen, E.A. Hermes, T. Kozlowski, F. Muheim, C.B. Niebuhr, H.S. Pruys, M. Rutsche, A. van der Schaaf, W. Bertl, J. Egger, B. Krause, J. Hofmann, S. Playfer, V. Djordjadze, C. Dohmen, W. Honecker, J. Kaulard, G. Otter, A. Schüngel, S. Starlinger, and P. Wintz
  Phys. Rev. C 1999 to be published

Conference reports

- Georg Kurz
  Search for muon-electron conversion with SINDRUM II
  WEIN 98, Santa Fe NM, June 1998.

Invited Lectures

- A. van der Schaaf
  Low-energy Signals from Supersymmetry
  Summer School on Hidden Symmetries and Higgs Phenomena, Zuoz, August 16 -22,

1998, PSI-Proceedings 98-0

- E.A. Hermes
Regulation mechanisms of environment, culture, civilisation, economy and politics in context with a balanced-education-system
Univ. Tbilisi 2.Sept. 1998, to be publ. Bulletin Georgian Acad. of Sciences

17.4 Research group of Prof. H. Keller

Articles

- Ratio of small polarons to free carriers in $La_{2-x}Sr_xCuO_4$ from susceptibility measurements
K.A. Müller, Guo-meng Zhao, K. Conder, and H. Keller
J. Phys.: Condens. Matter **10**, 291-296 (1998).

- Large, small and especially Jahn-Teller polarons
K.A. Müller
J. Supercond. **12**, 3-7 (1999).

- Observation of vortex-lattice melting in twinned $YBa_2Cu_3O_{7-x}$ using neutron small angle scattering
C.M. Aegerter, S.T. Johnson, W.J. Nuttall, S.H. Lloyd, M.T. Wylie, M.P. Nutley, E.M. Forgan, R. Cubitt, S.L. Lee, D. McK. Paul, M. Yethiraj, and H. A. Mook
Phys. Rev. B **57**, 14511-14516 (1998).

- Evidence for self-organised criticality in the Bean critical state
C.M. Aegerter
Phys. Rev. E **58**, 1438-1441 (1998).

- Evidence for a square vortex lattice in Sr_2RuO_4 by muon-spin rotation measurements
C.M. Aegerter, S.H. Lloyd, C. Ager, S.L. Lee, S. Romer, H. Keller, and E.M. Forgan
J. Phys. Cond. Mat. **10**, 7445-7451 (1998).

- Observation of a square flux line lattice in the unconventional superconductor Sr_2RuO_4
T.M. Riseman, P.G. Kealey, E.M. Forgan, A.P. Mackenzie, L. Galvin, A.W. Tyler, S.L. Lee, C. Ager, D. McK. Paul, C.M. Aegerter, R. Cubitt, Y. Maeno, Z. Mao, and Y. Mori
Nature **396**, 242-244 (1998).

- Observations of suppression of static and dynamic disorder in $Bi_2Sr_2CaCu_2O_{8+\delta}$ crystals by columnar defects
S.L. Lee, C.M. Aegerter, S.H. Lloyd, E.M. Forgan, M.B. Hunt, H. Keller, I.M. Savić, R. Cubitt, G. Wirth, K. Kadowaki, and N. Koshizuka
Phys. Rev. Lett. **81**, 5209-5212 (1998).

- Torsion cantilever as magnetic torque sensor
C. Rossel, M. Willemin, A. Gasser, H. Rothuizen, G.I. Meijer, and H. Keller
Rev. Sci. Instrum. **69**, 3199-3203 (1998).

- Transition from dimerization to antiferromagnetic order in quasi-one-dimensional $Ca_{0.83}CuO_2$
G.I. Meijer, C. Rossel, E.M. Kopnin, M. Willemin, J. Karpinski, H. Schwer, K. Conder,

and P. Wachter
Europhys. Lett. **42**, 339-344 (1998).

- Strong shift of the irreversibility line in high-T_c superconductors upon vortex shaking with an oscillating magnetic field
M. Willemin, C. Rossel, J. Hofer, H. Keller, A. Erb, and E. Walker
Phys. Rev. B **58**, R5940-R5943 (1998).

- First-order vortex-lattice melting transition in $YBa_2Cu_3O_{7-\delta}$ near the critical temperature detected by magnetic torque
M. Willemin, A. Schilling, H. Keller, C. Rossel, J. Hofer, U. Welp, W.K. Kwok, R.J. Olsson, and G.W. Crabtree
Phys. Rev. Lett. **81**, 4236-4239 (1998).

- Anisotropy scaling close to the $ab-$plane in $La_{1.9}Sr_{0.1}CuO_4$ by torque magnetometry
M. Willemin, C. Rossel, J. Hofer, H. Keller, and A. Revcolevschi
Phys. Rev. B **59**, R717-R720 (1999).

- Angular dependence of the latent heat of vortex-lattice melting in untwinned $YBa_2Cu_3O_{7-\delta}$
A. Schilling, R.A. Fisher, N.E. Phillips, U. Welp, W.K. Kwok, and G.W. Crabtree
Phys. Rev. B **58**, 11157-11160 (1998).

- Doping dependence of superconducting parameters in $HgBa_2CuO_{4+\delta}$ single crystals
J. Hofer, J. Karpinski, Guo-meng Zhao, M. Willemin, G.I. Meijer, E.M. Kopnin, R. Molinski, H. Schwer, C. Rossel, and H. Keller
J. Supercond. **12**, 45-47 (1999).

- Universal scaling properties of extreme type-II superconductors in magnetic fields
T. Schneider, J. Hofer, M. Willemin, J.M. Singer, and H. Keller
Eur. Phys. J. B **3**, 413-416 (1998).

- Single crystals of $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ (n=1-5) and layers of $HgBa_2Cu_nO_4$ grown at gas pressure 10 kbar
J. Karpinski, H. Schwer, E. Kopnin, R. Molinski, G.I. Meijer, K. Conder, J. Hofer, and D. Zech
J. Supercond. **11**, 119-122 (1998).

- High pressure crystal growth and properties of Hg-superconductors and quasi-one-dimensional cuprates
J. Karpinski, H. Schwer, R. Molinski, G.I. Meijer, E. Kopnin, M. Angst, S. Büchi, J. Hofer, V. Alyoshin, R. Puzniak, and A. Wisniewski
in: *High-Temperature Superconductors and Novel Inorganic Materials*, ed. J. Van Tendeloo *et al.*, Vol. **62** (Kluwer Academic Publishers, 1999) (pp. 21-26).

- Spontaneous magnetization and antiferromagnetic correlations of the CuO_2 chains in $Sr_{0.73}CuO_2$
A. Shengelaya, G.I. Meijer, J. Karpinski, Guo-meng Zhao, H. Schwer, E.M. Kopnin, C. Rossel, and H. Keller
Phys. Rev. Let. **80**, 3626-3629 (1998).

- Muon-spin-rotation measurements of the penetration depth in $YBa_2Cu_4O_8$ family superconductors
A. Shengelaya, C.M. Aegerter, S. Romer, H. Keller, P.W. Klamut, R. Dybzinski,

B. Dabrowski, J. Klamut, and D. Kaczorowski, and I. M. Savić
Phys. Rev. B **58**, 3457-3461 (1998).

- Electron spin-lattice relaxation of Er^{3+} ions in $Y_{0.99}Er_{0.01}Ba_2Cu_3O_x$
  V.A. Ivanshin, M.R. Gafurov, I.N. Kurkin, S.P. Kurzin, A. Shengelaya, H. Keller, and M. Gutmann
  Physica C **307**, 61-66 (1998).

- Oxygen isotope effects in $(La_{0.5}Nd_{0.5})_{0.67}Ca_{0.33}MnO_3$: Relevance of the electron-phonon interaction to the phase segregation
  M. R. Ibarra, G.M. Zhao, J.M. De Teresa, B. García-Landa, Z. Arnold, C. Marquina, P.A. Algarabel, H. Keller, and C. Ritter
  Phys. Rev. B **57**, 7446-7449 (1998).

- Colossal oxygen isotope shift of the charge-ordering transition in $Nd_{0.5}Sr_{0.5}MnO_3$
  G.M. Zhao, K. Ghosh, and R.L. Greene
  J. Phys.: Condens. Matter **10** L737-742 (1998).

- Oxygen isotope effects in $La_{2-x}Sr_xCuO_4$: Evidence for polaronic charge carriers and their condensation
  G.M. Zhao, K. Conder, H. Keller, and K.A. Müller
  J. Phys.: Condens. Matter **10** 9055-9066 (1998).

- Very strong magnetic field dependence of the oxygen isotope shift of the charge-ordering transition in $La_{0.5}Ca_{0.5}MnO_3$
  G.M. Zhao, K. Ghosh, H. Keller, and R.L. Greene
  Phys. Rev. B **59**, 81-84 (1999).

- Normal-state gap, supercarrier mass anisotropy and isotope effects in $La_{2-x}Sr_xCuO_4$
  G.M. Zhao, K. Conder, H. Keller, and K.A. Müller
  J. Supercond. **12**, 41-44 (1999).

Articles in press

- 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
  accepted for publication in Physica B (1998).

- 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
  accepted for publication in Physica B (1998).

- 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
  accepted for publication in Synth. Met. (1998).

- 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
  accepted for publication in Phys. Rev. Lett.

- Microfabricated ultrasensitive piezoresistive cantilevers for torque magnetometry
J. Brugger, M. Despont, C. Rossel, H. Rothuizen, P. Vettiger, and M. Willemin
Invited paper, to appear in the *Transducers'97 special volumes of Sensors and Actuators*, Elsevier Science.

- 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
to appear in J. Superconductivity.

- 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
to appear in Physica C.

- 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, to be published in *Lecture Notes in Physics*, ed. J. Klamut *et al.*, Springer Verlag.

- ESR study on high oxygen pressure synthesized compound $Pr_{2-x}Gd_xCuO_4$
V. A. Ivanshin, G.V. Mamin, A. Shengelaya, H. Keller, P.W. Klamut, and A. Sikora
to appear in Solid State Commun.

- 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*, eds. A. Kaplan and S.D. Mahanti (Plenum Publishing Corporation, 1999).

Conference reports

- What can superconductors teach us about (models of) biology?
C.M. Aegerter
ISTAS Summer School on Biophysics: 'Self-Assembly and Evolution', Lisabon, Portugal, 9-21 March, 1998.

- Fractal structures of flux distributions in superconductors?
C.M. Aegerter
Gordon Research Conference on Fractals, Il Ciocco, Italy, 10-15 May, 1998.

- Investigating low κ superconductors with μSR and SANS
C.M. Aegerter, S.H. Lloyd, E.M. Forgan, P.G. Kealey, S.L. Lee, C. Ager, F.Y. Ogrin, R. Cubitt, W.J. Nuttall, T.M. Riseman, and H. Keller
NATO Advanced Study Institute on Muon Science, St. Andrews, Scotland, 14-29 August, 1998.

- Large modification of the irreversibility line by vortex shaking
M. Willemin, C. Rossel, A. Schilling, J. Hofer, H. Keller, A. Erb, E. Walker, U. Welp,

W.K. Kwok, and G.W. Crabtree
17^{th} General Conference of the Condensed Matter Division, European Physical Society, Grenoble, France, 25-29 August, 1998.

- Separation of the irreversibilty line from the first-order melting line in $YBa_2Cu_3O_7$ by an oscillating magnetic field
  M. Willemin, C. Rossel, A. Schilling, J. Hofer, and H. Keller
  Swiss Physical Society Meeting, Bern, 25-26 February, 1999.

- Anisotropic latent heat of vortex-lattice melting in untwinned $YBa_2Cu_3O_{7-x}$
  A. Schilling, R.A. Fisher, N.E. Phillips, U. Welp, W.K. Kwok, and G.W. Crabtree
  1998 March Meeting of The American Physical Society, Los Angeles, CA, USA, 19 March, 1998.

- Doping dependence of superconducting parameters in $HgBa_2CuO_{4+\delta}$ single crystals
  J. Hofer, J. Karpinski, Guo-meng Zhao, M. Willemin, G.I. Meijer, E.M. Kopnin, R. Molinski, H. Schwer, C. Rossel, and H. Keller
  Euroconference on Polarons: Condensation, Pairing, Magnetism, Erice, Sicily, 9-17 June, 1998.

- Angular-dependent torque magnetometry on single-crystal $HgBa_2CuO_{4+\delta}$ near the critical temperature
  J. Hofer, T. Schneider, J.M. Singer, M. Willemin, H. Keller, C. Rossel, J. Karpinski, and T. Sasagawa
  Swiss Physical Society Meeting, Bern, 25-26 February, 1999.

- Oxygen isotope effects in manganates and cuprates studied by EPR
  A. Shengelaya, Guo-meng Zhao, K. Conder, H. Keller, and K. A. Müller
  Colloquium on Magnetic Resonance in High-T_c Superconductors, Engelberg, Switzerland, January 17-21, 1999.

- Spontaneous magnetization and antiferromagnetic correlations of the CuO_2 chains in $Sr_{0.73}CuO_2$
  A. Shengelaya, G.I. Meijer, J. Karpinski, Guo-meng Zhao, H. Schwer, E.M. Kopnin, C. Rossel, and H. Keller
  Swiss Physical Society Meeting, Bern, 25-26 February, 1999.

Invited Lectures

- H. Keller
  Seminar
  University of Geneva, Switzerland, 5 May, 1998
  "Probing high-temperature superconductivity with positive muons"

- H. Keller
  Seminar
  University of Belgrade, Belgrade, Serbia, 3 September, 1998
  "Probing vortex matter in cuprate superconductors with positive muons"

- H. Keller
  Seminar

Colloquim on Magnetic Resonance in High-T_c Superconductors, Engelberg, Switzerland, 20 January, 1998
"Probing vortex matter in cuprate superconductors with positive muons"

- C.M. Aegerter
  Invited oral poster presentation
  NATO Advanced Study Institute on Muon Science, St. Andrews, Scotland, 29 August, 1998
  "Investigating low κ superconductors with μSR and SANS"

- C.M. Aegerter
  Invited talk
  Complex systems seminar, University of California San Diego, USA, 1 October, 1998
  "Magnetic flux structures in superconductors with low Ginzburg-Landau parameter κ"

- C.M. Aegerter
  Promotionsvortrag, Universität Zürich, Switzerland, 21 October, 1998
  "Myonen und Neutronen in Supraleitern"

- A. Schilling
  Seminar
  Physikalisches Kolloquium, ETH Zürich and Universität Zürich, Zürich, Switzerland, 27 May, 1998
  "Phasenübergänge in Vortexmaterie: Ein unerforschtes Feld für experimentelle Thermodynamik"

- A. Schilling
  Invited talk
  17^{th} General Conference of the Condensed Matter Division, European Physical Society, Grenoble, France, 25 August, 1998
  "The melting transition of the vortex lattice in cuprates"

- A. Shengelaya
  Invited talk
  The Second Polish-US Conference on High Temperature Superconductivity, Wroclaw, Poland, 17-21 August, 1998
  "Oxygen isotope effects in manganates and cuprates studied by EPR"

- A. Shengelaya
  Invited talk
  Department of Physics, University of Augsburg, Augsburg, Germany, December 1998
  "Spontaneous magnetization and antiferromagnetic correlations of the CuO_2 chains in $Sr_{0.73}CuO_2$"

- A. Shengelaya
  Invited talk
  High Magnetic Field Laboratory, Grenoble, France, December 1998
  "EPR study of oxygen isotope effect in CMR manganates"

- M. Willemin
  Invited talk
  Commissariat à l'Energie Atomique (CEA), Grenoble, France, 19-20 November, 1998
  "Ultrasensitive torque magnetometry on high-T_c superconductors"

- M. Willemin
  Promotionsvortrag, Universität Zürich, Switzerland, 28 January, 1999
  "Hochempfindliche Drehmoment-Magnetometrie an Hochtemperatur-Supraleitern"

- Guo-meng Zhao
  Invited talk
  Polarons: Condensation, Pairing, Magnetism, Erice, Sicily, Italy, 9-17 June, 1998
  "Polaronic charge carriers and their condensation in the cuprate superconductors"

- Guo-meng Zhao
  Invited talk
  Physics of Manganites Workshop, Michigan State University, USA, 26-29 July, 1998
  "Oxygen isotope effects in manganites: Evidence for (bi)polaronic charge carriers"

17.5 Research group of Prof. W. Kündig

Articles

- Gravitational constant measured by means of a beam balance
  J. Schurr, F. Nolting, and W. Kündig
  Phys. Rev. Lett. **80**, 1142, (1998)

- A β–spectrometer for searching effects of finite neutrino masses
  E. Holzschuh, W. Kündig, L. Palermo, H. Stüssi, and P. Wenk
  Nucl. Inst. Meth. A **423**, 52 (1999).

- Measurement of the gravitational constant G by means of a beam balance
  J. Schurr, F. Nolting, and W. Kündig
  Phys. Lett. A **248**, 295 (1998)

- Preparation of a ^{35}S–source for β–spectroscopy
  L. Palermo, E. Holzschuh, W. Kündig, P. Wenk, and R. Alberto
  Nucl. Inst. Meth. A **423**, 337 (1999)

Articles in press

- 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.

- Direct Measurements of the Neutrino Masses
  E. Holzschuh
  In Neutrino physics, 2nd edition, ed. K. Winter, Cambridge University Press.

- Determination of the gravitational constant by means of a beam balance
  F. Nolting, St. Schlamminger, J. Schurr, and W. Kündig
  Europhysics News.

- Die Gravitationskonstante – Eine Herausforderung für die Messtechnik
  F. Nolting, St. Schlamminger, J. Schurr und W. Kündig
  Physikalische Blätter.

Conference reports

- Determination of G by means of a beam balance
  F. Nolting, J. Schurr, and W. Kündig
  Procceedings of the CPEM98, July 1998, Washington DC, IEEE Trans. Instrum. Meas.

- Value for G from beam-balance experiments
  F. Nolting, J. Schurr, St. Schlamminger, and W. Kündig
  Procceedings of the Cavendish meeting, Nov. 1998, London, Measurement science and techology.

Invited Lectures

- Value for G from beam-balance experiments
  Presented by F. Nolting
  The gravitational constant: Theory and experiment 200 years after Cavendish, London, Nov. 1998.

17.6 Research group of Prof. P. F. Meier

Articles

- J. M. Singer, T. Schneider, M. H. Pedersen,
  On the Phase Diagram of the Attractive Hubbard Model:
  Crossover and Quantum Critical Phenomena
  Eur. Phys. J. B **2**, 17 (1998).

- J. M. Singer and P. F. Meier,
  Knight shift in the attractive Hubbard model: crossover regime.
  Physica C **302**, 183 (1998).

- P. Hüsser, E. P. Stoll, H. U. Suter, and P. F. Meier,
  First-Principles Calculation of Electric-Field Gradients at the Cu Sites in $YBa_2Cu_3O_7$,
  Physica C, **294**, 217 – 224 (1998).

- T. Schneider, J. Hofer, M. Willemin, J. M. Singer and H. Keller,
  Universal scaling properties of extreme type-II superconductors in magnetic fields.
  Eur. Phys. J. B **3**, 413 (1998).

- J. Schneider, I. Morgenstern and J. M. Singer,
  Bouncing towards the optimum: Improving results of Monte Carlo optimization algorithms.
  Phys. Rev. E **58**, 5085 (1998).

- P. Hüsser, S. Schafroth, E. Stoll, H.U. Suter, and P.F. Meier,
  A User Project: First-Principles Calculation of Electric-Field Gradients at the Cu Sites in the High Temperature Superconductor $YBa_2Cu_3O_7$,
  CrosSCutS, **7**(2), 15 (1998).

- J. M. Singer, T. Schneider and P. F. Meier,
  Spectral properties of the attractive Hubbard model.
  Eur. Phys. J. B **7**, 37 (1999).

- J. M. Singer, T. Schneider and P. F. Meier,
Quantum Monte Carlo Simulations of the Two-Dimensional Attractive Hubbard Model: Phase Diagram and Spectral Properties.
IN: M. Ausloos et al., Symmetry and Pairing in Superconductors,
Kluwer Academic Publ., Netherlands (1999).

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

Articles in press

- H. U. Suter, P. Hüsser, E. P. Stoll, S. Schafroth and P. F. Meier,
Cluster Calculations of the Hyperfine Properties of Copper Compounds,
Hyperfine Interactions.

- J. Schneider, M. Schmid, I. Morgenstern and J. M. Singer,
Ensemble Based Search Space Smoothing.
Comp. Optimization and Appl. 1999.

- T. Schneider and J. M. Singer,
Magnetic Field induced Dimensional Crossover Phenomena in Cuprate Superconductors and their Implications.
Physica C 1999.

- J. Hofer, T. Schneider, J. M. Singer, M. Willemin, C. Rossel, H. Keller and J. Karpinski,
Angular-dependent torque magnetometry on single-crystal $HgBa_2CuO_{4+y}$ near the critical temperature.
Phys. Rev. B 1999.

- T. Schneider and J. M. Singer,
Magnetic field induced phase transitions in $YBa_2Cu_4O_8$.
Eur. Phys. J. B 1999.

- H. R. Moser, B. Weber, H. G. Wieser, and P. F. Meier,
Electroencephalograms in epilepsy: analysis and seizure prediction within the frame of Lyapunov theory.
Physica D.

Invited Lectures

- J. M. Singer
Theoretical Physics Colloquium, University of Geneva.

- J. M. Singer
Colloquium at the Institut Romand de Recherche Numérique en Physique des Matériaux (IRRMA), Ecole Polytechnique Fédérale Lausanne.

- J. M. Singer
Nato ASI Conference on 'Symmetry and Pairing in High-T_c Superconductors', Yalta, Crimea (Ukraine).

- J. M. Singer
  Seminar in Festkörperphysik, Universität Zürich.

- P. F. Meier
  Calculations of the hyperfine properties of copper compounds
  Internat. Conference on Hyperfine Interactions, Durban, ZA, 27. 8. 1998

- P. F. Meier
  Cluster calculations of the electronic structure of the La_2CuO_4 system
  Colloquium on Magnetic Resonance in High-T_c Superconductors, Engelberg, 19. 1. 1999

- P. F. Meier
  Examples of collaborations between computational physics, computer science and medicine
  Tagung der Schweiz. Physik. Ges., Bern, 25. 2. 1999

- P. F. Meier
  Electroencephalograms in epilepsy: analysis and seizure prediction within the frame of nonlinear dynamics
  Internat. Workshop on 'Chaos in Brain ?', Bonn, 11. 3. 1999

17.7 Research group of Prof. J. Osterwalder

Articles

- High-resolution photoemission study of hcp-Co(0001)
  E. Wetli, T. J. Kreutz, H. Schmid, T. Greber, J. Osterwalder, M. Hochstrasser
  Surf. Sci. 402-404 (1998) 551
- Angle-scanned photoemission: Fermi surface mapping and structural determination
  P. Aebi, R. Fasel, D. Naumovic, J. Hayoz, Th. Pillo, M. Bovet, R. G. Agostino, L. Patthey, L. Schlapbach, F. P. Gil, H. Berger, T. J. Kreutz, J. Osterwalder
  Surf. Sci. 402-404 (1998) 614
- Crystalline structure of surface layers for Ag/Cu(001) studied by incident beam electron diffraction
  M. Nowicki, J. Osterwalder
  Surf. Sci. 408 (1998) 165
- Semiconductor-metal transition of the single-domain K/Si(001)-(2x1) interface
  J. A. Martin-Gago, M. C. Asensio, P. Aebi, R. Fasel, D. Naumovic, J. Osterwalder
  M. C. Refolio, J. M. Lopez-Sancho, J. Rubio
  Phys. Rev. B 57 (1998) 9201
- Complete k-space mappings of cuprates at different doping levels
  P. Schwaller, T. Greber, H. Berger, J. Osterwalder
  J. Phys. Chem. Solids 59 (1998) 1929
- Temperature-dependent electronic structure of nickel metal
  T. J. Kreutz, T. Greber, P. Aebi, J. Osterwalder
  Phys. Rev. B 58 (1998) 1300
- Direct observation of subsurface oxygen on Rh(111)
  J. Wider, T. Greber, E. Wetli, T. J. Kreutz, P. Schwaller, J. Osterwalder
  Surf. Sci. 417 (1998) 301

- X-ray photoelectron diffraction in the backscattering geometry: a key to adsorption sites and bond lengths at surfaces
  T. Greber, J. Wider, E. Wetli, J. Osterwalder
  Phys. Rev. Lett. 81 (1998) 1654
- The role of molecular state and orientation in harpooning reactions: N_2O on Cs/Pt(111)
  M. Brandt, T. Greber, N. Böwering, U. Heinzmann
  Phys. Rev. Lett. 81 (1998) 2376
- State and orientation dependent N_2 emission in the N_2O+Cs reaction
  M. Brandt, T. Greber, F. Kuhlmann, N. Böwering, U. Heinzmann
  Surf. Sci. 402-404 (1998) 160
- Probing harpooning and dissociation in gas surface reactions by exoemission
  T. Greber Appl. Phys. A 67 (1998) 701
- Copper electrodeposition onto alkanothiolate layers
  O. Cavalleri, A. M. Bittner, H. Kind, K. Kern, T. Greber
  Z. Phys. Chem. 59 (1998) 1929
- Electroless deposition of metal nanoislands on aminothiolate-functionalized Au(111) electrodes
  H. Kind, A. M. Bittner, O. Cavalleri, K. Kern, T. Greber
  J. Phys. Chem. B 102 (1998) 7582
- Nonadiabatic gas surface reactions
  T. Greber
  Current Opinion in Solid State and Materials Science 3 (1998) 446

Articles in press

- Controlled underdoping of cuprates using ultraviolet radiation
  P. Schwaller, S. Berner, T. Greber, J. Osterwalder
  Appl. Phys. Lett. (1999)
- 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 (Rapid Communication) (1999)
- XPD and STM investigation of hexagonal boron nitride on Ni(111)
  W. Auwärter, T. J. Kreutz, T. Greber, J. Osterwalder
  Surf. Sci. (1999)

Diploma and PhD Theses

- Auswirkungen der Schichtstruktur von a-C:H Multilagen auf ihr tribologisches Verhalten
  Lukas J. C. Knoblauch-Meyer
  Dissertation, Physik-Institut, Universität Zürich, 1999
- Untersuchung optischer und thermischer Eigenschaften einer dünnen Natriumdampfzelle
  Arno Schneider
  Diploma Thesis, Physik-Institut, Universität Zürich, 1998
- Photoemission from oriented orbitals
  Moritz Hoesch
  Diploma Thesis, Physik-Institut, Universität Zürich, 1998

- Surface states on vicinal Cu(111)
  Felix Baumberger
  Diploma Thesis, Physik-Institut, Universität Zürich, 1998
- Unterdotieren von Kuprat-Supraleitern mittels ultraviolettem Licht
  Simon Berner
  Diploma Thesis, Physik-Institut, Universität Zürich, 1998
- Untersuchungen an hexagonalem Bornitrid-Filmen auf Nickel
  mittels Rastertunnelmikroskopie und Photoemission
  Willi Auwärter
  Diploma Thesis, Physik-Institut, Universität Zürich, 1998

Conference reports

- Near node photoelectron holography
  J. Wider
  Summer school, Luso, Portugal, 13.5.98
- Spatio-temporal modifications to shape, intensity, polarization
  and propagation of single pass laser beams in sodium vapor
  due to optical pumping
  R. Holzner, S. Dangel
  Conference on Patterns in Nonlinear Optical Systems, Pueblo Acantilado,
  Alicante, Spain, May 21-23, 1998
- Nonlinear effects due to optical pumping of sodium vapor
  by single-pass laser beams
  R. Holzner, S. Dangel
  Conference "Nonlinear Optics '98",
  Princeville, Kauai, Hawaii, August 10-14, 1998
- Optical pumping induced spatio-temporal modifications
  to single pass laser beams in sodium vapor
  R. Holzner, S. Dangel
  European Conference on Lasers and Electro-Optics / European Quantum
  Electronics Conference "CLEO / EUROPE-EQEC 98",
  Glasgow, Scotland, September 13-18, 1998
- XPD characterization of hexagonal boron nitride on Ni(111)
  T. Greber, W. Auwärter, T. J. Kreutz, J. Osterwalder
  International Vacuum Congress 14, Birmingham, U.K., 3.9.98
- Localization of Shockley surface states on vicinal Cu(111)
  F. Baumberger, T. Greber, J. Osterwalder
  Jahrestagung der Schweiz. Physik. Gesellschaft, Bern, 25.-26. Februar 1999
- Temperature information from Fermi-edges
  J. Kröger, T. Greber, T. J. Kreutz, J. Osterwalder
  Jahrestagung der Schweiz. Physik. Gesellschaft, Bern, 25.-26. Februar 1999

Invited Lectures

- T. Greber
  Exoemission: Sonde für die Aufklärung heisser Gas-Oberflächenreaktionen
  Hauptvortrag, DPG-Tagung Regensburg, 24.3.98

- J. Osterwalder
  A new surface science beamline at ELETTRA
  Workshop on New Directions at the Advanced Light Source, Berkeley, CA, 24.3.98
- T. Greber
  Photoelectron diffraction and Fermi surface mapping
  International School on the Application of Surface Science Techniques,
  Erice, Italy, 6.4.98
- R. Holzner
  Natriumatome im Licht
  Laser-Seminar, Institut für angewandte Physik, Universität Bern, 30.4.98
- R. Holzner
  Laserstrahlen im Natriumdampf
  Seminar, Physikalisch-Chemisches Institut, Universität Zürich, 7.5.98
- J. Osterwalder
  Winkelaufgelöste Photoemission in Bildern: Was lernt man Neues?
  Kolloquium, Fachbereich Physik, Universität Dortmund, 19.5.98
- T. Greber
  Exoemission als Sonde für die Aufklärung heisser Gas-Oberflächenreaktionen
  Antrittsvorlesung, Universität Zürich, 8.6.98
- J. Osterwalder
  Fermi surface mapping by angular resolved photoemission
  World Ceramics Congress / CIMTEC 98, Florence, Italy, 15.6.98
- T. Greber
  Probing hot adatoms by exoemission
  Gruppenseminar K. Kern, EPF Lausanne, 19.6.98
- J. Osterwalder
  Photoemission from magnetic materials
  1st International SLS Workshop on Synchrotron Radiation
  Monte Verita, Ascona, 2.8.98
- J. Osterwalder
  High-resolution k-space imaging near the Fermi surface of 3d ferromagnets
  12th International Conference on Vacuum Ultraviolet Radiation Physics
  San Francisco, CA, 6.8.98
- T. Greber
  Nonadiabatic gas-surface reactions - What can we learn from exoemission?
  The reaction of O_2 and N_2O with alkali metals
  Seminar, LCAM, Orsay, France, 14.10.98
- M. Hoesch
  Photoemission from oriented orbitals: angular distribution of
  photoelectrons from CO on Ni(111)
  Gruppenseminar, SLS Gruppe, PSI Villigen, 1.2.98

17.8 Research group of Prof. P. Truöl

Articles

- A Measurement of the Gluon Density in the Proton Based on Charm Production at HERA

David Müller
Thesis Universität Zürich (1998)

- Photoproduction of open charm in ep-collisions at HERA
Martin zur Nedden
Thesis Universität Zürich (1998)

- Photoproduction of $\Psi(2s)$ Mesons at HERA
H1-Collaboration**, C. Adloff et al.
DESY 97 – 228
Physics Letters **B421** (1998), 385 - 395

- Hadron Production in Diffractive Deep-Inelastic Scattering
H1-Collaboration**, C. Adloff et al.
DESY 98 – 029
Physics Letters **B428** (1998), 206 - 220

- Multiplicity Structure of the Hadronic Final State in Diffractive Deep-Inelastic Scattering at HERA
H1-Collaboration**, C. Adloff et al.
DESY 98 – 044
The European Physical Journal **C5** (1998), 439 - 452

- Observation of Events with an Isolated High Energy Lepton and Missing Transverse Momentum at HERA
H1-Collaboration**, C. Adloff et al.
DESY 98 – 063
The European Physical Journal **C5** (1998), 575 - 584

- Differential (2+1) Jet Rates and Determination of α_s in Deep-Inelastic Scattering at HERA
H1-Collaboration**, C. Adloff et al.
DESY 98 – 075
The European Physical Journal **C5** (1998), 625 - 639

- Diffractive Dijet Photoproduction at HERA
H1-Collaboration**, C. Adloff et al.
DESY 98 – 092
The European Physical Journal **C6** (1999), 421 - 436

- Forward Jet and Particle Production at HERA
H1-Collaboration**, C. Adloff et al.
DESY 98 – 143
Nuclear Physics **B538** (1999), 2 - 22.

- Multi-Jet Event Rates in Deep-Inelastic Scattering and Determination of the Strong Coupling Constant
H1-Collaboration**, C. Adloff et al.
DESY 98 – 087
The European Physical Journal **C6** (1999), 575 - 585

- Measurement of Leading Proton and Neutron Production in Deep Inelastic Scattering at HERA

H1-Collaboration**, C. Adloff et al.
DESY 98 – 169
The European Physical Journal **C6** (1999), 587 - 602

Articles in Print

- Di-jet Rates in Deep-Inelastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 076
  submitted to The European Physical Journal **C** (1998)

- Charged Particle Cross Sections in Photoproduction and Extraction of the Gluon Density in the Photon
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 148
  submitted to The European Physical Journal **C** (1998)

- 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
  submitted to Nuclear Physics **B** (1998)

- 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
  submitted to The European Physical Journal **C** (1998)

- Measurement of Internal Jet Structure in Di-jet Production in Deep Inelastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 98 – 210
  submitted to Nuclear Physics **B** (1998)

- Elastic Electroproduction of ρ Mesons at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 10
  submitted to The European Physical Journal **C** (1999)

- Charmonium Production in Deep Inleastic Scattering at HERA
  H1-Collaboration**, C. Adloff et al.
  DESY 99 – 026
  submitted to The European Physical Journal **C**

- Extraction of the Gluon Density from Open Charm at H1
  D. Müller
  Proc. 6$^{\text{th}}$ Int. Workshop on Deep-Inelastic Scattering and QCD (DIS98), IHE, Brussels, Belgium (April 1998)

- Study of $K^+ \to \pi^+ e^+ e^-$ and $K^+ \to \pi^+ \mu^+ \mu^-$ Decays in E865 at the AGS
  E-865-collaboration†, H. Ma et al.

presented by H. Ma
Proc. 29th Int. Conf. on High-Energy Physics, Vancouver, Canada (July 98)

- Recent Results from BNL E865
  E865-collaboration †, A. Sher et al.
  presented by A. Sher
  Proc. Workshop on Heavy Quarks at Fixed Targets, Chicago, USA (October 98)

Conferences

- Extraction of the Gluon Density from Open Charm at H1
  D. Müller
  5. 4. 1998
  DIS98, 6th Int. Workshop on Deep-Inelastic Scattering and QCD, April 1998, IHE, Brussels, Belgium

- F_{2C} and $xG(x)$ from Charm Production
  M. zur Nedden
  4. 6. 1998
  5th Workshop on Low x Physics at HERA, Juni 1998, DESY-Zeuthen, Berlin-Zeuthen, Germany

- Status of H1
  F. Sefkow
  8. 7. 1998
  Physics Research Committee, DESY, Hamburg, Germany

- Zerfälle von K-Mesonen: Ein altes Thema und eine bleibende Herausforderung für die experimentelle Teilchenphysik
  P. Truöl
  30. 1. 1999
  Zürcher Physikalische Gesellschaft, Zürich

- Diffraktive Charm-Produktion bei HERA
  S. Hengstmann
  19. 3. 1999
  DPG Frühjahrstagung 1999 - Teilchenphysik, Heidelberg, Germany

† E865-collaboration:

R. Appel[8,6], G.S. Atoyan[2,8], B. Bassaleck[5], D.N. Brown[6], D.R. Bergman[8], N. Cheung[6], S. Dhawan[8], H. Do[8], J. Egger[3], S. Eilerts[5], C. Felder[1,6], H. Fischer[5], M. Gach[6], W.D. Herold[3], V.V. Isakov[2,8], H. Kaspar[3], D. Kraus[6], D. Lazarus[1], L. Leipuner[1], J. Lowe[5], J. Lozano[8], H. Ma[1], W. Majid[8], W. Menzel[4], S. Pislak[7,8], A.A. Poblaguev[2,8], A.L. Proskurjakow[2], P. Rehak[1], P. Robmann[7], A. Sher[6], R. Stotzer[5], J.A. Thompson[6], P. Truöl[7,8], H. Weyer[4,3], M.E. Zeller[8]

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