

Dr. habil. Andreas Erb

Publication List (as of 5th October 2010):

- 170)** S. Caprara, C. Di Castro, B. Muschler, R. Hackl, M. Lambacher, A. Erb, S. Komiya, Y. Ando, M. Grilli
Unravelling the glue and the competing order in superconducting cuprates
arXiv:1010.0180
- 169)** W. Prestel, F. Venturini, B. Muschler, I. Tüttő, R. Hackl, M. Lambacher, A. Erb, Seiki Komiya, Shimpei Ono, Yoichi Ando, D. Inosov, V.B. Zabolotnyy, S.V. Borisenko
Quantitative comparison of single- and two-particle properties in the cuprates
arXiv:1009.0213
- 168)** B. Muschler, W. Prestel, L. Tassini, R. Hackl, M. Lambacher, A. Erb, Seiki Komiya, Yoichi Ando, D. C. Peets, W. N. Hardy, Ruixing Liang, D. A. Bonn
Electron interactions and charge ordering in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
arXiv:1008.5316
- 167)** T. Helm, M. V. Kartsovnik, I. Sheikin, M. Bartkowiak, F. Wolff-Fabris, N. Bittner, W. Biberacher, M. Lambacher, A. Erb, J. Wosnitza, R. Gross
Magnetic Breakdown in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$: Evidence for Translational Symmetry Breaking in a Strongly Overdoped Cuprate Superconductor
arXiv:1008.3371 [cond-mat.supr-con]
Submitted to Phys. Rev. Lett.
- 166)** Michael Lambacher, Toni Helm, Mark Kartsovnik, Andreas Erb
Advances in single crystal growth and annealing treatment of electron-doped HTSC
arXiv:1008.2092, to be published in Eur. Phys. J. B
- 165)** A. Pashkin, M. Porer, M. Beyer, K. W. Kim, A. Dubroka, C. Bernhard, X. Yao, Y. Dagan, R. Hackl, A. Erb, J. Demsar, R. Huber, and A. Leitenstorfer
Femtosecond Response of Quasiparticles and Phonons in Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
Studied by Wideband Terahertz Spectroscopy
Physical Review Letters Volume 105, 067001 (2010)
- 164)** M. Reibelt, S. Weyeneth, A. Erb, and A. Schilling:
Observation of a first-order phase transition deep within the vortex-solid region of $\text{YBa}_2\text{Cu}_3\text{O}_7$
arXiv:1003.4688v1 [cond-mat.supr-con]
Submitted to Phys. Rev. Lett.

- 163)** S. Thirupathaiah, S. de Jong, R. Ovsyannikov, H. A. Dürr, A. Varykhalov, R. Follath, Y. Huang, R. Huisman, M. S. Golden, Yu-Zhong Zhang, H. O. Jeschke, R. Valentí, A. Erb, A. Gloskovskii, and J. Fink
Orbital character variation of the Fermi surface and doping dependent changes of the dimensionality in $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$ from angle-resolved photoemission spectroscopy
Phys. Rev. B **81**, 104512 (2010)
- 162)** S. de Jong, E. van Heumen, S. Thirupathaiah, R. Huisman, F. Masee, J. B. Goedkoop, R. Ovsyannikov, J. Fink, H. A. Dürr, A. Gloskovskii, H.S. Jeevan, P. Gegenwart, A. Erb, L. Patthey, M. Shi, R. Follath, A. Varykhalov, M. S. Golden:
Droplet-like Fermi surfaces in the anti-ferromagnetic phase of EuFe_2As_2 , an Fe-pnictide superconductor parent compound
EPL **89**, 27007 (2010)
- 161)** S. Roth, G. Angloher, M. Bauer, I. Bavykina, A. Bento, A. Brown, C. Bucci, C. Ciemniak, C. Coppi, G. Deuter, A. Erb, F. v. Feilitzsch, A. Gütlein, D. Hauff, S. Henry, M. Hofmann, P. Huff, J. Imber, S. Ingelby, C. Isaila, J. Jochum, M. Kiefer, M. Kimmerle, H. Kraus, T. Lachenmaier, J.-C. Lanfranchi, R. Lang, B. Majorovits, M. Malek, R. McGowan, V. Mikhailik, E. Pantic, F. Petricca, S. Pfister, W. Potzel, F. Pröbst, K. Rottler, C. Sailer, K. Schöffner, J. Schmalzer, S. Scholl, W. Seidel, M.v. Sivers, L. Stodolsky, R. Strauss, A. J. B. Tolhurst, I. Usherov, W. Westphal:
Direct Dark Matter Search with CRESST and EURECA
Progress in Particle and Nuclear Physics, Elsevier, vol.65, issue (2009)
- 160)** C. Ciemniak, C. Coppi, A. Erb, F. von Feilitzsch, A. Gütlein, Ch. Isaila, J.-C. Lanfranchi, S. Pfister, W. Potzel, S. Roth and W. Westphal :
Optimization of the Czochralski Growth Process for Calcium Tungstate Detector Crystals
EAS Publications Ser. 36, 269 (2009)
- 159)** Kalobaran Maiti, Jörg Fink, Sanne de Jong, Mihaela Gorgoi, Chengtian Lin, Markus Raichle, Vladimir Hinkov, Michael Lambacher, Andreas Erb and Mark S. Golden:
Doping dependence of the chemical potential and surface electronic structure in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ and $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ using hard x-ray photoemission spectroscopy
Phys. Rev. B **80**, 165132 (2009)
- 158)** I. A. Nekrasov, N. S. Pavlov, E. Z. Kuchinskii, M. V. Sadovskii, Z. V. Pchelkina, V. B. Zabolotnyy, J. Geck, B. Büchner, S. V. Borisenko, D. S. Inosov, A. A. Kordyuk, M. Lambacher, and A. Erb :
Electronic structure of $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ studied via ARPES and LDA+DMFT+ k
Phys. Rev. B **80**, 140510(R) (2009)
- 157)** T. Helm, M. V. Kartsovnik, M. Bartkowiak, N. Bittner, M. Lambacher, A. Erb, J. Wosnitza, and R. Gross :
Evolution of the Fermi Surface of the Electron-Doped High-Temperature Superconductor $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$
Revealed by Shubnikov–de Haas Oscillations
Phys. Rev. Lett. **103**, 157002 (2009)

- 156)** J.S. White, V. Hinkov, R.W. Heslop, R.J. Lycett, E.M. Forgan, C. Bowell, S. Straessle, A.B. Abrahamsen, M. Laver, C.D. Dewhurst, J. Kohlbrecher, J.L. Gavilano, J. Mesot, B. Keimer, A. Erb:
Fermi surface and order parameter driven vortex lattice structure transitions in twin-free YBa₂Cu₃O₇
Physical Review Letters 102, 097001 (2009)
- 155)** J. S. White, S. P. Brown, E. M. Forgan, M. Laver, C. J. Bowell, R. J. Lycett, D. Charalambous, V. Hinkov, A. Erb, and J. Kohlbrecher
Observations of the configuration of the high-field vortex lattice in YBa₂Cu₃O₇:
Dependence upon temperature
and angle of applied field
Phys. Rev. B 78, 174513 (2008)
- 154)** L. Tassini, W. Prestel, A. Erb, M. Lambacher, R. Hackl
First-Order Type Effects in YBa₂Cu₃O_{6+x} at the Onset of Superconductivity
Phys. Rev. B 78, 020511(R) (2008)
- 153)** V.B. Zabolotnyy, S.V. Borisenko, A.A. Kordyuk, J. Geck, D.S. Inosov, A. Koitzsch, J. Fink, M. Knupfer, B. Büchner, S.-L. Drechsler, H. Berger, A. Erb, M. Lambacher, L. Patthey, V. Hinkov, B. Keimer:
Momentum and temperature dependence of renormalization effects in the high-temperature superconductor YBa₂Cu₃O_{7-δ}
Phys. Rev. B 76, 064519 (2007)
- 152)** A. Jánossy, K.L. Nagy, T. Fehér, L. Mihály, A. Erb
Search for stripes in antiferromagnetic lightly hole-doped YBa₂Cu₃O₆: An electron spin resonance and infrared transmission study
Phys. Rev. B 75, 024501 (2007)
- 151)** L.Tassini, W. Prestel, R. Hackl, A. Erb, M. Lambacher:
Charge ordering phenomena in high temperature superconductors
Physica C 460 , 925-926 (2007)
- 150)** V.B. Zabolotnyy, S.V. Borisenko, A.A. Kordyuk, J. Fink, J. Geck, A. Koitzsch, M. Knupfer, B. Büchner,
H. Berger, A. Erb, C.T. Lin, B. Keimer, R. Follath:
Effect of Zn and Ni impurities on the quasiparticle renormalization in
Bi₂Sr₂CaCu₂O_{8+δ}
Physica C 460 - 462 , 882-883 (2007)
- 149)** D. V. Evtushinsky, A. A. Kordyuk, S. V. Borisenko, V. B. Zabolotnyy, M. Knupfer, J. Fink, B. Buchner, A. V. Pan, A. Erb, C. T. Lin & H. Berger:
Unadulterated spectral function of low-energy quasiparticles in Bi₂Sr₂CaCu₂O₈ + δ
Physical Review B 74, 172509 (2006)

- 148) V. B. Zabolotnyy, S. V. Borisenko, A. A. Kordyuk, J. Fink, J. Geck, A. Koitzsch, M. Knupfer, B. Büchner, H. Berger, A. Erb, C. T. Lin, B. Keimer, and R. Follath :
Effect of Zn and Ni Impurities on the Quasiparticle Renormalization of Superconducting Bi-2212
Phys. Rev. Lett. 96, 037003 (2006)
- 147) R. Hackl, L. Tassini, F. Venturini, A. Erb, Ch. Hartinger, N. Kikugawa and T. Fujita:
Raman study of ordering phenomena in copper–oxygen systems
Journal of Physics and Chemistry of Solids, Volume 67, Issues 1-3, January-March 2006, Pages 289-293
- 146) R. Hackl, L. Tassini, F. Venturini, Ch. Hartinger, A. Erb, N. Kikugawa & T. Fujita
Ordering Phenomena in Cuprates
Adv. in Solid State Phys., B. Kramer (Ed.) 45, 227-238 (2005)
- 145) P. Majewski, S. Geprägs, A. Boger, M. Opel, A. Erb, R. Gross, G. Vaitheeswaran, V. Kanchana, A. Delin, F. Wilhelm, A. Rogalev, and L. Alff:
Magnetic moments of W 5d in Ca_2CrWO_6 and Sr_2CrWO_6 double perovskites
Phys. Rev. B 72, 132402 (2005)
- 144) K.-W. Nielsen, J.B. Philipp, M. Opel, A. Erb, J. Simon, L. Alff and R. Gross
Ferromagnetism in Mn-doped ZnO due to impurity bands
Superlattices and Microstructures, Volume 37, Issue 5, May 2005, Pages 327-332
- 143) N. Rama, J. B. Philipp, M. Opel, A. Erb, V. Sankaranarayanan, R. Gross, M. S. Ramachandra Rao
Effect of rare earth ion substitution on the magnetic and transport properties of $Pr_{0.7}RE_{0.04}Sr_{0.26}MnO_3$ (RE = Er, Tb and Ho)
European Physical Journal B 38, 553-557 (2004)
- 142) J. B. Philipp, P. Majewski, D. Reisinger, S. Geprägs, M. Opel, A. Erb, L. Alff, R. Gross
Magnetoresistance and magnetic properties of the double perovskites
Acta Physica Polonica A 105, 7-26 (2004)
- 141) V. Kargl, A. Mirmelstein, P. Böni; D. Sheptyakov; A. Amato; S. Kazakov, J. Karpinski; A. Erb
: Neutron diffraction, specific heat and μ SR study of the spin-chain compounds $Ca_{2+x}Y_{2-x}Cu_5O_{10}$
Physica B 350, (2004) e257-e259
- 140) S. P. Brown, D. Charalambous, E.C. Jones, E.M. Forgan, P.G. Kealey, A. Erb, and J. Kohlbrecher
: Triangular to Square Flux Lattice Phase Transition in $YBa_2Cu_3O_7$
Phys. Rev. Lett. 92, (2004) 067004

- 139)** J. B. Philipp, P. Majewski, L. Alff, A. Erb, R. Gross, T. Graf, M. S. Brandt, J. Simon, T. Walther, W. Mader, D. Topwal, and D. D. Sarma:
Structural and doping effects in the half-metallic double perovskite $A_2\text{CrWO}_6$ ($A=\text{Sr, Ba, and Ca}$)
Phys. Rev. B 68, 144431 (2003)
- 138)** András Jánossy, Titusz Fehér, and Andreas Erb
:Diagonal Antiferromagnetic Easy Axis in Lightly Hole Doped $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_6$
Phys. Rev. Lett. 91, (2003) 177001
- 137)** J. B. Philipp, P. Majewski, L. Alff, A. Erb, and R. Gross, T. Graf and M. S. Brandt, J. Simon, T. Walther, and W. Mader, D. Topwal and D. D. Sarma
:Structural and doping effects in the half-metallic double perovskite $A_2\text{CrWO}_6$ ($A=\text{Sr, Ba, and Ca}$)
Phys. Rev. B 68, (2003)144431
- 136)** D. Reisinger, B. Blass, J. Klein, J. B. Philipp, M. Schonecke, A. Erb, L. Alff, and R. Gross
Sub-unit cell layer-by-layer growth of Fe_3O_4 , MgO , and Sr_2RuO_4 thin films
Applied Physics 77, 619-621 (2003)
- 135)** D. Reisinger, M. Schonecke, T. Brenninger, M. Opel, A. Erb, L. Alff, and R. Gross
Epitaxy of Fe_3O_4 on $\text{Si}(001)$ by pulsed laser deposition using a TiN/MgO buffer layer
J. Appl. Phys. 94, (2003) 1857
- 134)** J. Klein, J. B. Philipp, D. Reisinger, M. Opel, A. Marx, A. Erb, L. Alff, and R. Gross
:Orbital order and anisotropic transport properties in doped manganites induced by epitaxial coherency strain
J. Appl. Phys. 93, (2003) 7373
- 133)** J. B. Philipp, D. Reisinger, M. Schonecke, M. Opel, A. Marx, A. Erb, L. Alff, and R. Gross
:Epitaxial growth and transport properties of Sr_2CrWO_6 thin films
J. Appl. Phys. 93, (2003) 6853
- 132)** J. Figueras, T. Puig, X. Obradors, A. Erb, E. Walker
:Anisotropy of the low-field critical point of the melting line in twinned YBCO single crystals
Phys. Rev. B 65, (2002) 092505
- 131)** J. Figueras, T. Puig, X. Obradors, A. Erb, E. Walker
:Anisotropic behaviour of the melting line and the low critical field in YBCO
Physica C: Superconductivity 369 (1-4) (2002) pp. 209-212

- 130)** N. L. Wang, T. Timusk, J. P. Franck, P. Schweiss, M. Braden and A. Erb
:The oxygen isotope effect in the a-b-plane reflectance of underdoped YBa₂Cu₃O₇
Phys. Rev. Lett. 89, (2002) 087003
- 129)** C. Kusko, Z. Zhai, N. Hakim, R. S. Markiewicz, S. Sridhar, D. Colson, V. Vialet-
uillen, A. Forget, Yu. A. Nefyodov, M.R. Trunin, N. N. Kolesnikov, A. Maignan, A.
Daignere, A. Erb
Anomalous microwave conductivity due to collective transport in the pseudogap state of
cuprate superconductors
Phys. Rev. B 65, (2002) 132501
- 128)** Yuxing Wang, Bernard Revaz, Andreas Erb, and Alain Junod
:Direct observation and anisotropy of the contribution of gap nodes in the low-temperature
specific heat of YBa₂Cu₃O₇
Phys. Rev. B 63, 094508 (2001)
- 127)** M. Opel, R. Nemetschek, F. Venturini, R. Hackl, I. Tüttö, H. Berger, A. Erb, B. Revaz
and E. Walker
:A Light-Scattering Study of Dynamical Carrier Properties in Cuprate Systems
Ferroelectrics 249, 155 (2001)
- 126)** Z. Zhai, P. V. Parimi, J. B. Sokoloff, S. Sridhar, and A. Erb
:Onset of dielectric modes at 110 K and 60 K due to local lattice distortions in
nonsuperconducting YBa₂Cu₃O_{6.0} crystals
Phys. Rev. B 63, (2001) 092508
- 125)** J. B. Philipp, D. Reisinger, M. Schonecke, A. Marx, A. Erb, L. Alff, R. Gross, and J.
Klein
:Spin-dependent transport in the double-perovskite Sr₂CrWO₆
Applied Physics Letters 79 (2001) 3654
- 124)** G. Witz, M. Dhallé, R. Passerini, X. -D. Su, Y. B. Huang, A. Erb and R. Flükiger
:ac Losses in Bi,Pb(2223) barrier tapes
Cryogenics, Volume 41, Issue 2, (2001), 97-101
- 123)** G. D'Anna, V. Berseth, L. Forró, A. Erb and E. Walker
Scaling of the Hall resistivity in the solid and liquid vortex phases in twinned single-
crystal
YBa₂Cu₃O_{7-x}
Phys. Rev. B 61, 4215 (2000)
- 122)** M. Grüninger, D. van der Marel, A. Damascelli, A. Erb, Th. Wolf, T. Nunner, and T.
Kopp
:Midinfrared absorption in YBa₂Cu₃O₆: Evidence for a failure of spin-wave theory for
spin 1/2 in two dimensions
Phys. Rev. B 62, (2000) 12422

- 121)** J. Le Coche, G. Lamura, A. Gauzzi, F. Licci, A. Revcolevschi, A. Erb, G. Deutscher, J. Bok
Effect of doping on the linear temperature dependence of the magnetic penetration depth in cuprate superconductors
Physica C: Superconductivity, 341-348 (1-4) (2000) 1669-1670
- 120)** Ivan Maggio-Aprile, Christophe Renner, Andreas Erb, Eric Walker, Bernard Revaz, Jean-Yves Genoud, Kazuo Kadowaki and Øystein Fischer
:Temperature dependence of tunneling spectra in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystals,
Journal of Electron Spectroscopy and Related Phenomena, Volume 109,(2000), 147
- 119)** Alain Junod, Marlyse Roulin, Bernard Revaz and Andreas Erb
:Experimental survey of critical fluctuations in the specific heat of high-temperature superconductors
Physica B: Condensed Matter, 280 (1-4) (2000) pp. 214-219
- 118)** Yuxing Wang, Bernard Revaz, Andreas Erb, Alain Junod.
: Direct Observation and Anisotropy of the Contribution of Gap nodes in the Low Temperature Specific Heat of $\text{YBa}_2\text{Cu}_3\text{O}_7$
Physica B: Condensed Matter, 284-288 (1-4) (2000) pp. 1043-1044
- 117)** Anke Köhler, Franz M. Sauerzopf, Martin Zehetmayer, Andreas Erb and Harald W. Weber
Influence of neutron irradiation on the fishtail behavior of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals
Physica C: Superconductivity, 341-348 (1-4) (2000) pp. 1467-1468
- 116)** M. Grüniger, D. van der Marel, A.A. Tsvetkov, and A. Erb,
:Observation of out-of-phase bilayer plasmons in $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$,
Physical Review Letters 84, (2000) 1575
- 115)** M. Opel, R. Nemetschek, C. Hoffmann, R. Philipp, P. F. Müller, and R. Hackl
:Carrier relaxation, pseudogap, and superconducting gap in high- T_c cuprates: A Raman scattering study
Phys. Rev. B 61, (2000) 9752
- 114)** Alain Junod, Bernard Revaz, Yuxing Wang, Andreas Erb
:Direct observation of the d-wave contribution to the low temperature Specific heat of the high temperature Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_7$
Physica B 284-288 (2000) 1043
- 113)** Yuxing Wang, Alain Junod, Bernard Revaz and Andreas Erb
:The d-wave contribution to the low temperature specific heat of $\text{YBa}_2\text{Cu}_3\text{O}_7$
Physica C: Superconductivity, 341-348 (1-4) (2000) pp. 1073-1074

- 112)** A. Shukla, B. Barbiellini, A. Erb, A. Manuel, B. Revaz, T. Buslaps, V. Honkimaki and P. Suortti
:A Compton scattering study of insulating $\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
J. Physics and Chemistry of Solids 61, (2000), 357-360
- 111)** Andreas Erb, Alfred Manuel, Riccardo Pozzi, Mihael Mali, Marc Dhalle, Frank Marti, Jean -Yves Genoud , Bernard Revaz, Alain Junod, Dharmavaram Vasumathi, Shoji Ishibashi , Abhay Shukla , Eric Walker, Øystein Fischer, Detlef Brinkmann and René Flükiger
:Experimental evidence for fast cluster formation of chain oxygen vacancies in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ being at the origin of the fishtail anomaly
Solid State Communications 112 (1999) 245
- 110)** Y. B. Huang, G. Witz, E. Gianinni, A. Erb, O. A. Shlyakhtin and R. Flükiger
Interaction of Bi, Pb(2223) precursors with metal zirconates
Supercond. Sci. Technol. 12 (1999) 411
- 109)** F. Marti, Y. B. Huang, M. Dhalle, G. Witz, E. Gianinni, A. Erb, E. Walker, S. Clerc, K. Kwasnitza and R. Flükiger
: Development of Bi(2223) Tapes with low AC losses
proceedings of ISS 98 conference held in Nov. (1998) Fukuoka, Japan
Advances in Superconductivity XI , Springer Verlag Tokyo; Japan (1999) 839
- 108)** J.-C. Grivel, Y. Eltsev, M. Anderson, Ö. Rapp, A. Erb, E. Walker, R. Flükiger :
First order melting transitions observed from resistivity measurements in ultra-pure $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals with high twin boundary density
Physica C 322 (1999) 203
- 107)** Marlyse Roulin, Bernard Revaz, Alain Junod, Andreas Erb and Eric Walker
: High resolution specific heat experiments on the vortex melting line in $\text{MBa}_2\text{Cu}_3\text{O}_x$ (M = Y, Dy, Eu) single crystals : Observation of first- and second-order transitions up to 16 Teslas
Proc. of the NATO Advanced Study Institute on the Physics and Material Science of Vortex States, Flux Pinning and Dynamics Kusadasi, Turkey (Aug. 1998)
Nato Science Series E 356 (1999) 489
Kluwer Academic Publisher, Sam Bose and Ram Kossowski, eds.
- 106)** F. Bouquet, C. Marcenat, R. Calemczuk, A. Erb, A. Junod, M. Roulin, U. Welp, K. Kwok, G. W. Crabtree, N. E. Phillips, R. A. Fischer, A. Schilling :
Calorimetric study of the transitions between the different vortex states in $\text{YBa}_2\text{Cu}_3\text{O}_7$
Proc. of the NATO Advanced Study Institute on the Physics and Material Science of Vortex States, Flux Pinning and Dynamics Kusadasi, Turkey (Aug. 1998)
Nato Science Series E 356 (1999) 743
Kluwer Academic Publisher, Sam Bose and Ram Kossowski, eds.

- 105)** M. Grüninger, D. van der Marel, A. Damascelli, A. Zibold, H.P. Gesserich, A. Erb, M. Kläser, Th. Wolf, T. Nunner and T. Kopp
Charged magnons and magneto-elastic polarons in the mid-infrared spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_6$
Physica C: Superconductivity, 317-318 (1-4) (1999) pp. 286-291
- 104)** Z. Hu, R. Meier, C. Schüssler-Langeheine, E. Weschke, G. Kaindl, I. Felner, M. Merz, N. Nücker, S. Schuppler, A. Erb:
O-2p holes in tetravalent oxides of Ce and Pr and the Fehrenbacher-Rice hybrid in $\text{PrBa}_2\text{Cu}_3\text{O}_{7-d}$
Phys. Rev. B 60 (1999) 1460
- 103)** Abhay Shukla, Bernardo Barbiellini, Andreas Erb, Alfred Manuel, Thomas Bulaps, Veijo Honkämäki and Pekka Suortti:
Hole depletion and localization due to disorder in insulating $\text{PrBa}_2\text{Cu}_3\text{O}_{7-d}$; A Compton scattering study
Phys. Rev. B 59 (1999) 12127
- 102)** R. Pozzi, M. Mali, D. Brinkmann, A. Erb
: Spin dynamics in the paramagnetic phase of $\text{YBa}_2\text{Cu}_3\text{O}_{6.12}$ as seen by Cu NMR
Phys. Rev. B 60 (1999) 9650
- 101)** M. Opel, R. Hackl, T. P. Devereaux, A. Virosztek, A. Zawadowski, A. Erb, E. Walker, H. Berger, L. Forro
: Physical Origin of the buckling in CuO_2 : Electron- phonon coupling and Raman spectra
Phys. Rev. B 60 (1999) 9836
- 100)** M. Opel, M. Götzinger, C. Hoffmann R. Nemetschek, Richard Philipp, Francesca Venturini, R. Hackl, A. Erb and E. Walker
J. Low Temp. Phys. 117 (1999) 347
- 99)** Christophe Renner, Bernard Revaz, Kazuo Kadowaki, Ivan Maggio-Aprile, Andreas Erb, Eric Walker and Oystein Fischer
: STM Vortex Core Spectroscopy and Non-BCS Pairing in High Temperature Superconductors
proceedings of ISS 98 conference held in Nov. (1998) Fukuoka, Japan
Advances in Superconductivity XI, Springer Verlag Tokyo; Japan (1999) 145
- 98)** Alain Junod, Andreas Erb, Christophe Renner
: Specific Heat of high temperature superconductors in high fields at T_c : from BCS to the Bose-Einstein condensation
Proceedings of the ACS'98 conference, Crete, Greece Sept. 1998
Physica C 317-318 (1999) 333

- 97) M. Grüniger, D. van der Marel, A. Damascelli, A. Zibold, H. P. Geserich, A. Erb, M. Kläser, Th. Wolf, T. Nummer and T. Kopp
: Charged magnons and magneto-elastic polarons in the MIR spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_6$
Proceedings of the ACS'98 conference, Crete, Greece Sept. 1998
Physica C 317-318 (1999) 286
- 96) M. Willemin, C. Rossel, J. Hofer, H. Keller, A. Erb
: Strong shift of the irreversibility line in the high T_c superconductors upon vortex shaking with an oscillating magnetic field
Phys. Rev. B 58 (1998) R5940
- 95) Bernard Revaz, Alain Junod and Andreas Erb
: Specific Heat Peaks Observed up to 16 Tesla on the Melting Line of Vortex Matter in $\text{DyBa}_2\text{Cu}_3\text{O}_7$
Phys. Rev. B 58 (1998) 11153
- 94) Marion Kläser, Joachim Kaiser, Fredy Stock, German Müller-Vogt and Andreas Erb
: Comparative Study of oxygen diffusion in rare earth $\text{REBa}_2\text{Cu}_3\text{O}_{7-\delta}$ - single crystals (RE=Y, Er, Dy) with different impurity levels
Physica C 306 (1998) 188
- 93) Andreas Erb, Eric Walker, Jean -Yves Genoud and René Flükiger
: Improvements in crystal growth and crystal homogeneity and its impact on physics
proceedings of ISS 97 conference held in Nov. (1997) Gifu, Japan
Advances in Superconductivity X, Springer Verlag Tokyo; Japan, (1998) 355
- 92) M. Peter, A.A. Manuel, A. Erb
: Positron annihilation in superconducting 123 compounds
Int. J. Mod. Phys. Vol. 12 No 29-31 (1998) 3187-3202.
- 91) Andreas Erb, Eric Walker, Jean -Yves Genoud and René Flükiger
: Improvements in crystal growth and crystal homogeneity and its impact on physics
J. Phys. Chem. Solids 59 (1998) 2180
- 90) R. Nemetschek, R. Hackl M. Opel, R. Phillip, M. T. Beal-Monod, J. B. Bieri, K. Maki, A. Erb, E. Walker
: d+s wave superconductivity: Analysis of the electronic Raman data of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and other cuprates
E. Phys. J. 5 (1998) 495
- 89) G. D'Anna, V. Berseth, L. Forro, A. Erb, E. Walker
: Hall anomaly and vortex-lattice melting in superconducting single crystal $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
Phys. Rev. Letters 81 (1998) 2530
- 88) B. Revaz, J.-Y. Genoud, A. Junod, K. Neumaier, A. Erb, E. Walker
: Observation of d-wave scaling relations in the mixed state specific heat of $\text{YBa}_2\text{Cu}_3\text{O}_7$
Phys. Rev. Lett. 80 (1998) 3364

- 87) H. Srikanth, Z. Zhai, S. Sridhar, A. Erb, E. Walker
: Systematics of two-component superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ from microwave measurements of high quality crystals
Phys. Rev. B., 57 (1998) 7986
- 86) Marlyse Roulin , Alain Junod, Andreas Erb, Eric Walker, René Flükiger and Jerome Sierro
: Calorimetric Transitions on the Melting Line of the Vortex System as a Function of Oxygen Deficiency in High-Purity $\text{YBa}_2\text{Cu}_3\text{O}_x$
Phys. Rev. Lett. 80 (1998) 1722
- 85) M. Grüniger, D. van der Marel, H.P. Geserich, Th. Wolf, A. Erb and T. Kopp
: Infrared spectroscopy on $\text{Y}_{1-x}\text{RE}_x\text{Ba}_2\text{Cu}_3\text{-yZn}_y\text{O}_6$ (RE=Pr, Gd, $x=0$ and 0.8 ; $y=0$ and 0.15)
Physica B: Condensed Matter, 244 (1-4) (1998) pp. 60-65
- 84) S. Uma, W. Schnelle, E. Gmelin, G. Rangarajan, S. Skanthakumar, J. W. Lynn, R. Walter, T. Lorenz, B. Büchner, E. Walker and A. Erb
: Magnetic ordering in Single crystals of $\text{PrBa}_2\text{Cu}_3\text{O}_{7.8}$
J. Phys.: Cond. Matter 10 (1998) L33
- 83) U. Hubler, P. Jess, H. P. Lang, A. Erb, E. Walker, M. Regier, D. Schild, J. Halbritter, H.-J. Güntherrodt
: $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ single crystals revisited: Scanning probe data on very pure samples grown in BaZrO_3 crucibles
Appl. Phys. A 66 (1998) S1219
- 82) H. Srikanth, Z. Zhai, S. Sridhar, A. Erb
: Microwave properties of YBCO crystals grown in BaZrO_3 crucibles: Influence of c-axis currents
J. Phys. Chem. Solids 59 (1998) 2105
- 81) B. Revaz, J. Y. Genoud, A. Junod, A. Erb, E. Walker
: The quasiparticle DOS in the vortex state of $\text{YBa}_2\text{Cu}_3\text{O}_7$ inferred from specific heat measurements
J. Phys. Chem. Solids 59 (1998) 2118
- 80) M. Opel, R. Nemetschek, C. Hoffmann, P.F. Müller, R. Phillipp, R. Hackl, H. Berger, L. Forro, A. Erb, E. Walker
: Pseudogap and Superconducting Gap in the electronic Raman Spectra of underdoped Cuprates
J. Phys. Chem. Solids 59 (1998) 1942

- 79) T.P. Devereaux, A. Virosztek, A. Zawadowski, M. Opel, P.F. Müller, C. Hoffmann, R. Phillip, R. Nemetschek, R. Hackl, A. Erb, E. Walker, H. Berger and L. Forro
: Enhanced Electron-Phonon and its irrelevance to high T_c Superconductivity
Solid State Comm. 108 (1998) 407
- 78) Andreas Erb, Jean-Yves Genoud, Marc Dhalle, Frank Marti, Eric Walker and René Flükiger
: On the origin of the so-called fishtail effect in single crystals of the RE - 123 compounds
(RE = Y, Er, Nd)
Proceedings of the EUCAS'97 conference held June 1997, Velhoven, The Netherlands
Applied Superconductivity 158 (1997) 1109
Institute of Physics Publishing, Bristol and Philadelphia
- 77) A. Erb, E. Walker, J.-Y. Genoud and R. Flükiger
: 10 years of crystal growth of the 123 - and 124 - high T_c superconductors:
From Al_2O_3 to $BaZrO_3$ - Progress in crystal growth and sample quality and its impact on
physics
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 459
- 76) J.-Y- Genoud, A. Erb, B. Revaz and A. Junod
Growth of high purity $YBa_2Cu_4O_8$ and $Y_2Ba_4Cu_7O_{15.8}$ single crystals in $BaZrO_3$ crucibles
under high oxygen pressure, and absence of magnetic "fishtail" effect
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 457
- 75) A. Erb, J.-Y. Genoud, M. Dhalle, E. Walker and R. Flükiger
: Reversible suppression of the so-called fishtail effect in ultra pure single crystals of
 $YBa_2Cu_3O_{7.8}$
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 2145
- 74) M. V. Indenbom, C.J. van der Beek, V. Berseth, W. Benoit, G. D'Anna, A. Erb, E.
Walker, R. Flükiger
: Magneto-optical observation of twisted vortices in type-II superconductors
Nature 385 (1997) 702
- 73) M. Roulin, A. Junod, E. Walker and A. Erb
: High resolution specific heat experiments on the melting line of the vortex lattice and
glass in $YBa_2Cu_3O_{7.8}$: Observation of first- and second-order transitions up to 16 Teslas
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 1401

- 72) C.J. van der Beek, M. V. Indenbom, V. Berseth, W. Benoit, A. Erb, R. Flükiger
: Disappearance of the force-free configuration at the vortex lattice phase transition in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ single crystals
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 1953
- 71) C. Marcenat, R. Calemczuk, A. Erb, E. Walker, A. Junod
: Observation of the vortex lattice melting in $\text{YBa}_2\text{Cu}_3\text{O}_7$ by specific heat measurements in very high magnetic fields : $H \leq 23$ Tesla
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 2059
- 70) A. Junod, M. Roulin, J.-Y- Genoud, B. Revaz, E. Walker, A. Erb, C. Marcenat, R. Calemczuk, F. Bouquet
: Specific heat anomalies on the vortex melting line in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ up to $B=23$ Teslas: Observation of First and Second-Order Transitions, Effect of oxygen Doping, Field Orientation, Crystal Purity and Detwinning
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 1425
- 69) Andreas Erb, Eric Walker, Jean -Yves Genoud and René Flükiger
: Improvements in crystal growth and crystal homogeneity and its impact on physics
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 89
- 68) Y. B. Huang, G. Grasso, F. Marti, A. Erb, S. Clerc, K. Kwasnitza and R. Flükiger
: Fabrication and Microstructure of Bi(2223) Multi-Filamentary Tapes with low AC Losses
Proceedings of the SPA'97 6-8 Mars (1997) Xian China, 217
World Scientific Publishing Co , Pt Ltd Singapore
- 67) J.-C. Grivel, G. Grasso, A. Erb and R. Flükiger
: Formation of the $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ phase with and without Pb substitution
Proceedings of the EUCAS'97 conference June 1997, Velhoven, The Netherlands
Applied Superconductivity 158 (1997) 941
- 66) H. Srikanth, B. A. Willemsen T. Jacobs, S. Sridhar, A. Erb, E. Walker, R. Flükiger
: Microwave response of $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ crystals: Evidence for a multi-component order parameter
Phys. Rev. B 55 No. 22 (1997) R14733
- 65) S. Sridhar, H. Srikanth, Z. Zhai, B. A. Willemsen, T. Jacobs, A. Erb, E. Walker, R. Flükiger
: Evidence for multi-component superconducting order parameter in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ single crystals from microwave measurements
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 256

- 64)** A. Junod, M. Roulin, B. Revaz, A. Erb and E. Walker
: Specific heat Experiments in High Magnetic Fields: D-wave Symmetry , Fluctuations , Vortex Melting
: Proceedings of the International Summer School, Cargese France 1997 (eds. Bok and Deutscher, Plenum)
- 63)** J.-Y. Genoud, B. Revaz, A. Erb, A. Mirmelstein, G. Triscone and A. Junod
:Correlation between the "fishtail" effect in the magnetization and the Schottky contribution in the specific heat of high purity $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ crystals
Czechoslovak Journal of Physics, Vol. 97 No. 10 (1997) 1047
- 62)** A. Junod, M. Roulin, J.-Y- Genoud, B. Revaz, A. Erb, E. Walker
: Specific heat peaks observed up to 16 Teslas on the melting line of the vortex lattice in $\text{YBa}_2\text{Cu}_3\text{O}_7$
Physica C 275 (1997) 245
- 61)** I. Maggio-Aprile, Ch. Renner, A. Erb, E. Walker and O. Fischer
: Critical currents approaching the depairing limit at a twin boundary in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
Nature 390 (1997) 487
- 60)** M. Merz, N. Nücker , E. Pellegrin, P. Schweiss, S. Schuppler, M. Kielwein, M. Knupfer, M.S. Golden, J. Fink, C.T. Chen, V. Chakarian, Y.U. Idzerda, A. Erb
: X-ray absorption spectroscopy of detwinned $\text{Pr}_{1-x}\text{Y}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals : electronic structure and hole distribution
Phys. Rev. B 55 No.14 (1997) 9160
- 59)** S. Uma, W. Schnelle, E. Gmelin, G. Rangarajan, and A. Erb
:Specific heat of pure $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals in magnetic fields
J. Appl. Phys. 81, (1997) 4227
- 58)** R. Nemetschek, M. Opel, C. H. Hoffmann, P.F. Müller, R. Hackl, H. Berger, L. Forro, A. Erb, E. Walker
: Pseudogap and superconducting gap in the electronic Raman spectra of underdoped cuprate superconductors
Phys. Rev. Letters 78 No. 25 (1997) 4837
- 57)** O. Fischer, Ch. Renner, I. Maggio-Aprile, A. Erb, E. Walker B. Revaz and J.-Y. Genoud
:Tunneling spectroscopy and STS observation of vortices on high temperature superconductors
Proc. of the M²HTSL Conference in Beijing (1997), Physica C 282-287 (1997) 315
- 56)** A. Junod, M. Roulin, B. Revaz, A. Mirmelstein, J.-Y- Genoud, E. Walker and A. Erb
:Specific heat of high temperature superconductors in high magnetic fields
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 1399

- 55) Z. Zhai, H. Srikanth, S. Sridhar, A. Erb, E. Walker, R. Flükiger
: Observation of coherent Josephson response in the non-linear ab-plane microwave impedance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals
Proc. of the M²HTSL Conference in Beijing (1997)
Physica C 282-287 (1997) 1601
- 54) A. Erb, J.-Y. Genoud, F. Marti, M. Däumling, E. Walker and R. Flükiger
: Reversible suppression of the so-called fishtail effect in ultra pure single crystals of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ achieved by proper oxygenation
J. of Low Temp. Phys. 105 (1996) 1023
- 53) M. Däumling, A. Erb, E. Walker, J.-Y. Genoud, R. Flükiger
: Monotonic Dependence of j_c on the Magnetic Field in Twinned Crystals of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{ErBa}_2\text{Cu}_3\text{O}_{7-\delta}$
Physica C 257 (1996) 371
- 52) A. Erb, E. Walker, R. Flükiger
: The use of BaZrO_3 crucibles in crystal growth of the high T_c superconductors: Progress in crystal growth as well as in sample quality
Physica C 258 (1996) 9
- 51) A. Erb, B. Greb, G. Müller-Vogt
: In situ resistivity measurements during the oxygenation of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{Gd}_{0.8}\text{Y}_{0.2}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals
Physica C 259 (1996) 83
- 50) B. Revaz, A. Junod, A. Mirmelstein, A. Erb, J.-Y. Genoud and G. Triscone
: D-wave specific Heat in Y-123 and Bi-2212 single crystals: new data, alternative explanation
Czechoslovak Journal of Physics, Vol 46 (1996) 1205
- 49) M. Roulin, A. Junod, A. Erb and E. Walker
: Melting of the Flux Line Lattice observed by Specific Heat Experiments in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
J. Low Temp. Phys. 105 (1996) 1099
- 48) M. V. Indenbom, V. Berseth, C.J. van der Beek, W. Benoit, A. Erb, E. Walker, R. Flükiger
: Dynamics of the Force-Free Current Configuration
Proceedings of the 8 th IWCC, Katakayushu, Japan May 27-29 (1996)
Critical currents in Superconductors (eds. T. Matsuhita and K. Yamafuji) World Scientific, Singapore, New Jersey, London, Hongkong
- 47) Ch. Renner, I. Maggio-Aprile, A. Erb, E. Walker, O. Fischer
: Electronic structure of individual flux lines in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
Spectroscopic Studies of Superconductors (eds. I. Bozovic and D. van der Marel)
Proc. SPIE Int. Soc. Opt. Eng. 2696, 322 (1996)

- 46) M. Merz, N. Nücker, E. Pellegrin, S. Schuppler, M. Kielwein, M. Knupfer, M.S. Golden, J. Fink, C.T. Chen, V. Chakarian, Y.U. Idzerda and A. Erb
: X-ray absorption spectroscopy of detwinned $\text{Pr}_{1-x}\text{Y}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals :
J. Low Temp. Phys. 105 (1996) 347
- 45) K. Widder, M. Merz, D. Berner, J. Münzel, H.P. Geserich, A. Erb, R. Flükiger, W. Widder, H.F. Braun
: Optical Investigation of $\text{Y}_{1-z}\text{Pr}_z\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ single domain crystals. A comparison between impurity-free and Al doped samples
Physica C 264 (1996) 11
- 44) S. Uma, W. Schnelle, E. Gmelin, G. Rangarajan, A. Erb, E. Walker and R. Flükiger
: Specific Heat of Single Crystalline $\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}$ in Magnetic Fields
Czechoslovak Journal of Physics, Vol 46 (1996) 2677
- 43) V. Berseth, M. V. Indenbom, C.J. van der Beek, A. Erb, E. Walker, R. Flükiger and W. Benoit
: Instabilities of the force-free configurations
Czechoslovak Journal of Physics, Vol 46 (1996) 1539
- 42) M. Grüninger, D. van der Marcel, P.J.M. van Bentum, A. Erb, Th. Wolf, T. Kopp
: Probing the Mid-Infrared Spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_{6.0}$ with High Magnetic Fields and Zinc Doping
Czechoslovak Journal of Physics, Vol 46 (1996) 1127
- 41) M. Grüninger, D. van der Marcel, P.J.M. van Bentum, A. Erb, H. P. Geserich, T. Kopp
: Far- and Mid Infrared Spectrum of $\text{YBa}_2\text{Cu}_3\text{O}_{6.0}$ in High Magnetic Fields
J. Low Temp. Phys. 105 (1996) 389
- 40) I. Maggio-Aprile, Ch. Renner, A. Erb, E. Walker and O. Fischer
: Scanning Tunneling Spectroscopy Studies in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
J. Low Temp. Phys. 105 (1996) 1129
- 39) H. P. Lang, A. Erb, P. Jess, U. Hübner and H.- J. Güntherodt
: Scanning/ Friction Force Microscopy Study of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals grown from BaZrO_3 Crucibles
J. Low Temp. Phys. 105 (1996) 1373
- 38) B. Wand, G. Sparn, F. Steglich, X. Liu, J. Wosnitza, H. v. Löhneysen, A. Erb, M. Kläser, G. Müller-Vogt
: Anisotropy of the In Plane Thermal Conductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
J. Low Temp. Phys. 105 (1996) 993
- 37) W.H. Fietz, R. Quenzel, H.A. Ludwig, K. Grube, S.I. Schlachter, F.W. Hornung, Th. Wolf, A. Erb, M. Kläser, G. Müller-Vogt
: Giant pressure effect in oxygen deficient $\text{YBa}_2\text{Cu}_3\text{O}_x$
Physica C 270 (1996) 258

- 36) R. Hiergeist, R. Hergt, A. Erb
: Field Dependence of Current Density in Strong Pinning YBCO Single Crystals with Different Microstructure
Institute of Physics Conference Series Number 148 Vol. 1: Applied Superconductivity (1995) 315-318, eds. D. Dew Hughes, Institute of Physics Publishing, Bristol and Philadelphia (1995)
- 35) N. Nücker, E. Pellegrin, P. Schweiss, J. Fink, S.L. Molodtsov, C.T. Simmons, G. Kaindl, W. Frentrup, A. Erb, G. Müller-Vogt
: Site-specific and doping-dependent electronic structure of $\text{YBa}_2\text{Cu}_3\text{O}_x$ probed by O 1s and Cu 2p x-ray-absorption spectroscopy
Phys.Rev. B 51 No.13 (1995), 8529
- 34) N. Nücker, E. Pellegrin, P. Schweiss, E. Sohmen, J. Fink, S.L. Molodtsov, C.T. Simmons, M. Domke, G. Kaindl, W. Frentrup, C. T. Chen, A. Erb, G. Müller-Vogt
: Site-specific and doping dependent electronic structure of $\text{YBa}_2\text{Cu}_3\text{O}_x$ probed by O 1s and Cu 2p x-ray absorption spectroscopy
Synth. Metals 71 (1995) 1563
- 33) A. A. Manuel, A. Shukla, L. Hofmann, T. Jarlborg, B. Barbiellini, S. Massidda, W. Sadowski, E. Walker, A. Erb, M. Peter
: Fermi surfaces of High-Tc superconductors by positron 2D-ACAR
J. Phys. Chem. Solids Vol. 56 No. 12 (1995) 1951
- 32) I. Maggio-Aprile, Ch. Renner, A. Erb, E. Walker, Ø. Fischer
: Direct Vortex Lattice Imaging and Tunneling Spectroscopy of Flux Lines on $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$
Phys. Rev. Lett. 75 No. 14 (1995) 2754
- 31) V. Breit, P. Schweiss, R. Hauff, H. Wühl, H. Claus, H. Rietschel, A. Erb, G. Müller-Vogt
: Evidence for chain superconductivity in near-stoichiometric $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ single crystals
Phys. Rev. B 52 No. 22 (1995) 15727
- 30) A. Erb, E. Walker, R. Flükiger,
: BaZrO_3 : the solution for the crucible corrosion problem during the single crystal growth of high- T_c superconductors $\text{REBa}_2\text{Cu}_3\text{O}_{7.8}$; RE =Y, Pr
Physica C 245 (1995) 245-251
- 29) L. Klein, E. R. Yacoby, Y. Yeshurun, A. Erb, G. Müller-Vogt, V. Breit, H. Wühl,
: Peak effect and scaling of irreversible properties in untwinned Y-Ba-Cu-O crystals
Phys. Rev. B 49 No. 6 (1994), 4403
- 28) R. Hergt, R. Hiergeist, A. Köhler, M. Zeisberger, A. Erb
: Microstructure Influence on the Field Dependence of the Pinning Force Volume Density of YBCO Single Crystals
Physica C 235-240 (1994), 2751

- 27) R. Hiergeist, R. Hergt, A. Erb, H. G. Schnack, R. Griessen
: Analysis of the Bulk Pinning in YBCO Single Crystals within the Frame of the Collective Pinning Theory
Physica C 235-240 (1994), 2743
- 26) A. Erb, T. Traulsen, G. Müller-Vogt,
: $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ - BaCuO_2 - CuO ; Investigations on the phase diagram and growth of single crystals; Part II
J. Crystal Growth 137 (1994) 487-492
- 25) P. Schweiß, W. Reichardt, M. Braden, G. Collin, G. Heger, H. Claus, A. Erb
: Static and dynamic Displacements in $\text{REBa}_2\text{Cu}_3\text{O}_{7-x}$ (RE=Y, Ho; x=0.05, 0.5); a neutron diffraction study on single crystals
Phys. Rev. B 49 No.2 (1994), 1387
- 24) S. Riedling, G. Bräuchle, H. Claus, R. Lucht, K. Röhberg, H.v. Löhneysen, A. Erb, G. Müller-Vogt
: Observation of the Wohlleben Effect in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals
Phys. Rev. B 49 No.18 (1994), 13283
- 23) K. Widder, A. Zibold, M. Merz, H. P. Geserich, A. Erb, G. Müller-Vogt
: Ordering of chain oxygen in $\text{YBa}_2\text{Cu}_3\text{O}_x$. Optical investigations on single-domain crystals
Physica C 232 (1994), 82
- 22) A. Zibold, K. Widder, M. Merz, H. P. Geserich, A. Erb, G. Müller-Vogt, J. Kirchner,
: Ordering of Chain Oxygen in Single-Domain Crystals of YBCO
Physica C 235-240 (1994), 1093
- 21) R. Hauff, V. Breit, H. Claus, D. Hermann, A. Knierim, P. Schweiss, H. Wühl, A. Erb, G. Müller-Vogt
: Superconductivity of overdoped $\text{YBa}_2\text{Cu}_3\text{O}_x$ single crystals near $x = 7$
Physica C 235-240 (1994), 1953
- 20) W. Reichardt, L. Pintschovius, N. Pyka, P. Schweiss, A. Erb, P. Bourges, G. Collin, J. Rossat-Mignod, I.Y. Henry, A. S. Ivanov, N. L. Mitrofanov, A. Yu. Rumiantsev,
: Anharmonicity and Electron-Phonon Coupling in Cuprate Superconductors Studied by Inelastic Neutron Scattering
J. of Supercond. 7 No. 2 (1994), 399
- 19) A. Erb, T. Biernath, G. Müller-Vogt,
: $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ - BaCuO_2 - CuO ; Investigations on the phase diagram and growth of single crystals;
Part I : The System BaCuO_2 - CuO_x
J. Crystal Growth 132 (1993) 389-395

- 18) O.Kraut, C.Meingast, G.Bräuchle, H. Claus, A. Erb, G.Müller-Vogt, H.Wühl
: Uniaxial Pressure dependence of T_c of untwinned $YBa_2Cu_3O_x$ single crystals for $x = 6.5 - 7$
Physica C 205 (1993), 139-146
- 17) U. Welp, S. Flesher, W.K. Kwok, J. Downey, G.W. Crabtree, H. Claus, A. Erb, G. Müller-Vogt
: Effect of gold impurities on the superconducting fluctuations and the upper critical field of $YBa_2Cu_3O_{7-x}$ single crystals
Phys. Rev. B 47 No. 18 (1993), 12369
- 16) A. Zibold, L. Widder, H.P. Geserich, G.Bräuchle, H.Claus, H.v. Löhneysen, N. Nücker, A. Erb, G. Müller-Vogt
: Optical Investigation of the metal-insulator regime in single-domain crystals of $YBa_2Cu_3O_x$
Physica C 212 (1993), 365-371
- 15) N. Pyka, W. Reichardt, L. Pintschovius, P. Schweiß, A. Erb, G. Müller-Vogt
: Neutron Scattering Study of the Chain Oxygen Vibrations in $YBa_2Cu_3O_7$
Phys. Rev. B 48 No.10 (1993), 7746.
- 14) J. Rimmel, O. Meyer, J. Geerk, J. Reiner, G. Linker, A. Erb, G. Müller-Vogt
: Structural anomalies in the oxygen sublattice of $YBa_2Cu_3O_7$ and $EuBa_2Cu_3O_7$ at T_c .
Phys. Rev. B 48 No.21 (1993), 16168
- 13) M. Dürrieler, A. Zibold, K. Widder, H. P. Geserich, Th. Wolf, G. Roth, G. Bräuchle, A. Erb, G. Müller-Vogt und J. Kirchner
: Influence of the Oxygen Content on the Optical Conductivity Function of $YBa_2Cu_3O_x$ ($6 < x < 7$)
Electronic Properties of High- T_c Superconductors, Springer series in Solid State Sciences 113, 326-329
- 12) R. Hergt, R. Hiergeist, A. Erb
: Angular Dependence of Creep in YBCO single crystals investigated by Torque Magnetometry
J. of Alloys and Compounds 195 (1993), 431-434.
- 11) G.Goll, K.Seemann, G.Bräuchle, H. v. Löhneysen, A.Erb, G. Müller-Vogt, A.I. Akimenko, I.K. Yanson
: Point-contact spectroscopy on oxygen-deficient $YBa_2Cu_3O_7$ single crystals
Sov. J. of Low Temp. Phys. 18 (6) (1992), 415.
- 10) A. Krol, Z.H. Ming, Y.H. Kao, N. Nücker, G. Roth, J. Fink, G.C. Smith, K.T. Park, J. Yu, A.J. Freeman, A. Erb, G. Müller-Vogt, J. Karpinski, E. Kaldis, K. Schönmann
: Hole states in CuO_2 planes and Cu-O chains of $YBa_2Cu_3O_7$ and $YBa_2Cu_4O_8$ probed by soft-x-ray absorption spectroscopy
Phys. Rev. B Vol. 45 No. 5 (1992), 2581-2584

- 9) J. Schützmann, B. Gorshunov, K.F. Renk, J. Münzel, A. Zibold, H.P. Gesserich, A. Erb, G. Müller-Vogt
: Far-Infrared Hopping Conductivity in the CuO Chains of a Single Domain YBa₂Cu₃O₇ Crystal
Phys. Rev. B 46 (1992), 512-515.
- 8) H. Claus, M. Braun, A. Erb, K. Röhberger, B. Runtsch, H. Wühl, G. Bräuchle, P. Schweiß,
G. Müller-Vogt, H. v. Löhneysen
: The "90 K-Plateau" of Oxygen Deficient YBa₂Cu₃O₇ Single Crystals
Physica C 198 (1992), 42-46
- 7) A. Zibold, K. Widder, H.P. Gesserich, T. Scherer, P. Marienhoff, M. Neuhaus, W. Jutzi,
A. Erb, G. Müller-Vogt
: Optical Anisotropy of YBa₂Cu₃O_{7-x} Films on NdGaO₃(001) Substrates - A
Comparison with single Domain crystals
Appl. Phys. Lett. 61 (3) (1992), 345-347.
- 6) H. Claus, U. Gebhard, G. Linker, K. Röhberg, S. Riedling, J. Franz, T. Ishida, A. Erb, G. Müller-Vogt, H. Wühl
: Phase Separation in YBa₂Cu₃O_{7-x} Single Crystals near x=0
Physica C 200 (1992), 271-276.
- 5) V.G. Hadjiev, C. Thomsen, A. Erb, G. Müller-Vogt, M.R. Koblishka, M. Cardona
: Effect of oxygen disorder on the superconductivity-induced self-energy effects in
impurity-free YBa₂Cu₃O_{7-x}
Solid State Communications 80 Nr.8 (1991), 643-647.
- 4) C. Meingast, O. Kraut, T. Wolf, H. Wühl, A. Erb, G. Müller-Vogt
: Large a-b Anisotropy of the Expansivity Anomaly at T_c in Untwinned YBa₂Cu₃O_{7-x}
Phys. Rev. Lett. 67 Nr.12 (1991), 1634-1637.
- 3) H. Wühl, R. Benischke, M. Braun, B. Frank, O. Kraut, R. Ahrens, G. Bräuchle, H. Claus,
A. Erb, W. H. Fietz, C. Meingast, G. Müller-Vogt, T. Wolf,
: Influence of Oxygen Deficiency on the Superconducting Properties of YBa₂Cu₃O_{7-x}
Physica C 185-189 (1991), 755-756.
- 2) J. Winkelhahn, A. Devenyi, G. Scheiber, H.P. Gesserich, A. Erb, G. Müller-Vogt
: Piezo-Modulation Spectroscopy On Untwinned YBa₂Cu₃O₇ Crystals
Rev. Roum. Phys 36 Nr. 10 (1991), 709-716.
- 1) A. Zibold, M. Dürrieler, H. P. Gesserich, A. Erb, G. Müller-Vogt,
: Polarized Reflectance Spectra of a (001) Surface of YBa₂Cu₃O₇ before and after
detwinning
Physica C 171 (1990), 151-155