

Publication List – Christian Bernhard

1. *Superconductivity-induced transverse plasma mode and phonon anomaly in the c-axis response of the bilayer structure $RbCa_2Fe_4As_4F_2$* , Phys. Rev. **B 101**, 214512 (2020), B. Xu, Z. C. Wang, A. Dubroka, D. Munzar, E. Shevelva, F. Lyzwa, P. Marsik, C. Wang, G. H. Cao, and **C. Bernhard**.
2. *Muon spin rotation and infrared spectroscopy study of $Ba_{1-x}Na_xFe_2As_2$* , Phys. Rev. **B 101**, 224515 (2020), E. Sheveleva, B. Xu, P. Marsik, F. Lyzwa, B. P. P. Mallett, K. Willa, C. Meingast, Th. Wolf, T. Shevtsova, Yu. G. Pashkevich, and **C. Bernhard**.
3. *Infrared spectroscopy of the in-plane response of $YBa_2Cu_3O_{6.6}$ in magnetic fields up to 30 Tesla*, Phys. Rev. Research **2**, 023218 (2020), F. Lyzwa, B. Xu, P. Marsik, E. Sheveleva, I. Crassee, M. Orlita, and **C. Bernhard**.
4. *Backfolded acoustic phonons in metal-oxide superlattices measured by Raman spectroscopy and their utility in thin film quality characterization*, Phys. Rev. Mat. **4**, 0436060 (2020), F. Lyzwa, A. Chan, J. Khmaladze, K. Fürsich, B. Keimer, **C. Bernhard**, M. Minola, and B. P. P. Mallett.
5. *Electron-Phonon-Driven Three-Dimensional Metallicity in an Insulating Cuprate*, PNAS **117**, 6409 (2020), E. Baldini, M. A. Sentef, S. Acharya, T. Brumme, E. Sheveleva, F. Lyzwa, E. Pomjakushina, **C. Bernhard**, M. van Schilfgaarde, F. Carbone, A. Rubio, and C. Weber.
6. *Magnetic proximity effect and spin-polarization of the charge carriers in $La_{2/3}Sr_{1/3}MnO_3/YBa_2Cu_3O_7/Alq_3/Co$ spin valves*, EPL **129**, 37002 (2020), A. Cerreta, R. Gaina, L. Nuccio, I. Marozau, K. Sen, R. de Andres Prada, S. Sarkar, and **C. Bernhard**.
7. *Optical Signature of a Crossover from Mott- to Slater-type Gap in $Sr_2Ir_{1-x}Rh_xO_4$* , Phys. Rev. Lett. **124**, 027402 (2020), B. Xu, P. Marsik, E. Sheveleva, F. Lyzwa, A. Louat, V. Brouet, D. Munzar, and **C. Bernhard**.
8. *Controlling the strength of ferromagnetic order in $YBa_2Cu_3O_7/La_{2/3}Ca_{1/3}MnO_3$ multilayers* Phys. Rev. **B 100**, 115129 (2019), R. de Andres Prada, R. Gaina, N. Biskup, M. Varela, J. Stahn, and **C. Bernhard**.
9. *Granular superconductivity and charge/orbital order in $YBa_2Cu_3O_7$ /manganite multilayers*, Phys. Rev. Mat. **3**, 084801 (2019), J. Khmaladze, S. Sarkar, M. Soulier, F. Lyzwa, R. des Andres-Prada, E. Perret, B. P. P. Mallett, M. Minola, B. Keimer, and **C. Bernhard**.
10. *Memory functionality superconductor/ferromagnet/superconductor junctions based on the high- T_c cuprate $YBa_2Cu_3O_{7-x}$ and the colossal magnetoresistive manganite ferromagnets $La_{2/3}X_{1/3}MnO_{3+\delta}$ ($X: Ca, Sr$)*, Phys. Rev. **B 99**, 214510 (2019), R. de Andres Prada, T. Golod, O. M. Kapran, E. A. Borodiansky, **C. Bernhard**, and V. M. Krasnov.
11. *Terahertz vortex beam as a spectroscopic probe of magnetic excitations*, Phys. Rev. Lett. **122**, 237401 (2019), A. A. Sirenko, P. Marsik, **C. Bernhard**, T. N. Stanislavchuk, V. Kiryukhin, and S-W. Cheong.

12. *Scaling of the Fano effect of the in-plane Fe-As phonon and the superconducting critical temperature in $Ba_{1-x}K_xFe_2As_2$* , Phys. Rev. Lett. **122**, 217002 (2019), B. Xu, E. Cappelluti, L. Benfatto, B. P. P. Mallett, P. Marsik, E. Sheveleva, F. Lyzwa, Th. Wolf, R. Yang, X. G. Qiu, Y. M. Dai, H. H. Wen, R. P. S. M. Lobo, and **C. Bernhard**.
13. *Band-selective clean- and dirty-limit superconductivity with nodeless gaps in the bilayer iron-based superconductor $CsCa_2Fe_4As_4F_2$* , Phys. Rev. B **99**, 125119 (2019), B. Xu, Z. C. Wang, E. Sheveleva, F. Lyzwa, P. Marsik, G. H. Cao, and **C. Bernhard**.
14. *Signatures of the bonding-antibonding splitting in the c-axis infrared response of moderately underdoped bilayer and trilayer cuprate superconductors*, Phys. Rev. **B 99**, 054513 (2019), B. P. P. Mallett, P. Marsik, D. Munzar, J. Chaloupka, **C. Bernhard**, and A. Dubroka.
15. *Growth and Nanofabrication of All Perovskite Superconducting/Ferromagnetic/Superconducting Junctions*, J. Supercond. Nov. Magn. **32(9)**, 2721 (2019), R. des Andrés Prada, T. Golod, **C. Bernhard**, and V. M. Krasnov.
16. *Terahertz-Driven Phonon Upconversion in $SrTiO_3$* , Nat. Phys. **15**, 387 (2019), M. Kozina, M. Fechner, P. Marsik, T. van Driel, J.M. Glowonia, **C. Bernhard**, M. Radovic, D. Zhu, S. Bonetti, U. Staub, and M.C. Hoffmann.
17. *Temperature-driven Topological Phase Transition and Intermediate Dirac Semimetal Phase in $ZrTe_5$* , Phys. Rev. Lett. **121**, 187401 (2018), B. Xu, L. X. Zhao, P. Marsik, E. Sheveleva, F. Lyzwa, Y. M. Dai, G. F. Chen, X. G. Qiu, and **C. Bernhard**.
18. *Coupled Cu and Mn charge and orbital orders in $YBa_2Cu_3O_{7-x}/Nd_{0.65}(Ca_{1-y}Sr_y)_{0.35}MnO_3$ multilayers*, Commun. Phys. Nat. **1**, UNSP45 (2018), E. Perret, C. Monney, S. Johnson, J. Khmaladze, R. Gaina, M. Dantz, J. Pellicciari, C. Piamontheze, M. Minola, B. Keimer, T. Schmitt, and **C. Bernhard**.
19. *Optical study of Dirac fermions and related phonon anomalies in the antiferromagnetic parent compound $CaFeAsF$* , Phys. Rev. **B 97**, 195110 (2018), B. Xu, H. Xiao, B. Gao, Y. H. Ma, G. Mu, P. Marsik, E. Sheveleva, F. Lyzwa, Y. M. Dai, R. S. M. Lobo, and **C. Bernhard**.
20. *Lattice-mediated magnetic order melting in $TbMnO_3$* , Phys. Rev. **B 97**, 125149 (2018), E. Baldini, T. Kubacka, B. P. P. Mallett, C. Ma, S. M. Koohpayeh, **C. Bernhard**, S. L. Johnson, and F. Carbone.
21. *In-situ monitoring of atomic layer epitaxy via optical ellipsometry*, J. Phys. D: Appl. Phys. **51**, 125306 (2018), F. Lyzwa, P. Marsik, V. Roddatis, **C. Bernhard**, M. Jungbauer, and V. Moshnyaga.
22. *Anomalous anisotropic exciton temperature dependence in rutile TiO_2* , Phys. Rev. **B 96**, 041204(R) (2017), E. Baldini, A. Dominguez, L. Chiodo, E. Sheveleva, M. Yazdi-Rizi, **C. Bernhard**, A. Rubio, and M. Chergui.
23. *Structural, electronic and magnetic properties of pulsed-laser-deposition grown*

- SrFeO₃ thin films and SrFeO₃/La_{2/3}Ca_{1/3}MnO₃ multilayers*, J. Phys.: Condens. Matter **29**, 495601 (2017), E. Perret, K. Sen, J. Khmaladze, B. P. P. Mallett, M. Yazdi-Rizi, P. Marsik, S. Das, I. Marozau, M. A. Uribe-Laverde, R. de Andres Prada, J. Stremper, M. Döbeli, N. Biškup, M. Varela, Y.-L. Mathis, and **C. Bernhard**.
24. *Superconductivity and charge carrier localization in ultrathin La_{1.85}Sr_{0.15}CuO₄/La₂CuO₄ bilayers*, Phys. Rev. **B 95**, 214506 (2017), K. Sen, P. Marsik, S. Das, E. Perret, A. Alberca, N. Biškup, M. Varela, and **C. Bernhard**.
25. *Infrared ellipsometry study of the photo-generated charge carriers at the (001) and (110) surfaces of SrTiO₃ crystals and the interfaces of corresponding LaAlO₃/SrTiO₃ heterostructures*, Phys. Rev. **B 95**, 195107 (2017), M. Yazdi-Rizi, P. Marsik, B. P. P. Mallett, A. Dubroka, M. Scigaj, F. Sánchez, G. Herranz, and **C. Bernhard**.
26. *Local Terahertz Field Enhancement for Time-Resolved X-ray Diffraction*, Appl. Phys. Lett. **110**, 081106 (2017), M. Kozina, M. Pancaldi, **C. Bernhard**, T. van Driel, J. M. Glowia, P. Marsik, M. Radovic, C. A. F. Vaz, D. Zhu, S. Bonetti, U. Staub, and M. C. Hoffmann.
27. *Two-dimensional excitonic quasiparticles in a three-dimensional crystal: The case of anatase TiO₂*, Nature Commun. **8**, 13 (2017), E. Baldini, L. Chiodo, A. Dominguez, M. Palummo, S. Moser, M. Yazdi, G. Auböck, B. P. P. Mallett, H. Berger, A. Magrez, **C. Bernhard**, M. Grioni, A. Rubio, and M. Chergui.
28. *Muon spin rotation and infrared spectroscopy study of magnetism and superconductivity in Ba_{1-x}K_xFe₂As₂*, Phys. Rev. **B 95**, 054512 (2017), B. P. P. Mallett, C. N. Wang, P. Marsik, E. Sheveleva, M. Yazdi-Rizi, J. L. Tallon, P. Adelman, Th. Wolf, and **C. Bernhard**.
29. *Clocking the onset of bilayer coherence in a high-T_c cuprate*, Phys. Rev. **B 95**, 024501 (2017), E. Baldini, A. Mann, B. P. P. Mallett, C. Arrell, F. van Mourik, T. Wolf, D. Mihailovic, J. L. Tallon, **C. Bernhard**, J. Lorenzana, and F. Carbone.
30. *Anisotropy of the infrared-active phonon modes in the mono-domain state of tetragonal SrTiO₃(110)*, Phys. Rev. **B 95**, 024105 (2017), M. Yazdi-Rizi, P. Marsik, B. P. P. Mallett and **C. Bernhard**.
31. *Granular superconductivity and magnetic-field-driven recovery of macroscopic coherence in a cuprate/manganite multilayer*, Phys. Rev. **B 94**, 180503(R) (2016), B. P. P. Mallett, J. Khmaladze, P. Marsik, E. Perret, A. Cerreta, M. Orlita, N. Biskup, M. Varela, and **C. Bernhard**.
32. *Optical constants, band gap, and infrared-active phonons of (LaAlO₃)_{0.3}(Sr₂AlTaO₆)_{0.35} (LSAT) from spectroscopic ellipsometry*, J. Vac. Sci. Technol. **A 34**, 051507 (2016), T. N. Nunley, T. I. Willett-Gies, J. A. Cooke, F. S. Manciu, P. Marsik, **C. Bernhard**, and S. Zollner.
33. *Infrared ellipsometry study of the confined electrons in a γ -Al₂O₃/SrTiO₃ heterostructure*, EPL **113**, 47005 (2016), M. Yazdi-Rizi, P. Marsik, B. P. P. Mallett, A. Dubroka, D. V. Christensen, Y. Z. Chen, N. Pryds, and **C. Bernhard**.

34. *Terahertz ellipsometry study of the soft mode behavior in ultrathin SrTiO₃ films*, Appl. Phys. Lett. **108**, 052901 (2016), P. Marsik, K. Sen, J. Khmaladze, M. Yazdi-Rizi, B. P. P. Mallett, and **C. Bernhard**.
35. *X-ray absorption study of the ferromagnetic Cu moment at the YBa₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ interface and the variation of its exchange interaction with the Mn moment*, Phys. Rev. **B 93**, 205131 (2016), K. Sen, E. Perret, A. Alberca, M. A. Uribe-Laverde, I. Marozau, M. Yazdi-Rizi, B. P. P. Mallett, P. Marsik, C. Piamonteze, Y. Khaydukov, M. Döbeli, T. Keller, J. Vasatko, D. Munzar, and **C. Bernhard**.
36. *Element specific magnetization redistribution at YBa₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ interfaces*, Phys. Rev. **B 92**, 174415 (2015), A. Alberca, M. A. Uribe-Laverde, Y. W. Windsor, M. Ramakrishnan, L. Rettig, I. Marozau, J.-M. Tonnerre, J. Stahn, U. Staub, and **C. Bernhard**.
37. *Muon-spin-rotation study of the magnetic structure in the tetragonal antiferromagnetic state of weakly underdoped Ba_{1-x}K_xFe₂As₂*, EPL **111**, 57001 (2015), B. P. P. Mallett, J. Pashkevich, A. Gusev, Th. Wolf, and **C. Bernhard**.
38. *Infrared study of the spin reorientation transition and its reversal in the superconducting state in underdoped Ba_{1-x}K_xFe₂As₂*, Phys. Rev. Lett. **115**, 027003 (2015), B. P. P. Mallett, P. Marsik, M. Yazdi-Rizi, Th. Wolf, A. E. Böhmer, F. Hardy, C. Meingast, D. Munzar, and **C. Bernhard**.
39. *Competing superconducting and magnetic order parameters and field-induced magnetism in electron-doped Ba(Fe_{1-x}Co_x)₂As₂*, Phys. Rev. **B 91**, 024504 (2015), J. Larsen, B. M. Uranga, G. Stieper, S.L. Holm, **C. Bernhard**, T. Wolf, K. Lefmann, B. M. Anderson, and C. Niedermayer.
40. *Effect of combined addition of graphene oxide and citric acid on superconducting properties of MgB₂*, Physica **C 509**, 49 (2015), Sudesh, S. Das, **C. Bernhard**, and G. D. Varma.
41. *Manipulating magnetism in La_{0.7}Sr_{0.3}MnO₃ via piezostain*, Phys. Rev. **B 91**, 024406 (2015), J. Heidler, C. Piamonteze, R. V. Chopdekar, M. A. Uribe-Laverde, A. Alberca, N. Buzzi, B. Delley, **C. Bernhard**, and F. Nolting.
42. *Evidence for precursor superconducting pairing above T_c in underdoped cuprates from an analysis of the in-plane infrared response*, New. J. Phys. **17**, 053022 (2015), B. Sopjick, J. Chaloupka, **C. Bernhard**, and D. Munzar.
43. *Atomic resolution studies of epitaxial strain release mechanisms in La_{1.85}Sr_{0.15}CuO₄/La_{0.67}Ca_{0.33}MnO₃ superlattices*, Phys. Rev. **B 91**, 205132 (2015), N. Biskup, S. Das, J. M. Gonzalez Calbet, **C. Bernhard**, and M. Varela.
44. *Controlling the near-surface superfluid density in underdoped YBa₂Cu₃O_{6+x} by photo-illumination*, Sci. Reports **4**, 6250 (2014), E. Stilp, A. Suter, T. Prokscha, Z. Salman, E. Morenzoni, H. Keller, P. Pahlke, R. Hühne, **C. Bernhard**, J. C. Baglo, Ruixing Liang, W. N. Hardy, D. A. Bonn, and R. F. Kiefl.

45. *Enhanced superconducting properties of rare earth oxides and graphene oxide added MgB₂*, *Physica C* **505**, 32 (2014), S. Sudesh, S. Das, **C. Bernhard**, and G.D. Varma.
46. *X-ray absorption spectroscopy study of the electronic and magnetic proximity effects in YBa₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ and La_{2-x}Sr_xCuO₄/La_{2/3}Ca_{1/3}MnO₃ multilayers*, *Phys. Rev. B* **90** 205135 (2014), M. A. Uribe-Laverde, S. Das, K. Sen, I. Marozau, E. Peret, A. Alberca, J. Heidler, C. Piamonteze, M. Merz, P. Nagel, S. Schuppler, D. Munzar, **C. Bernhard**.
47. *Study of superconducting properties of ferrocene-added MgB₂*, *Physica Status Solidi A* **211**, 1503 (2014), S. Sudesh, S. Das, **C. Bernhard**, T. Shripathi and G. D. Varma.
48. *Structural, magnetic and superconducting properties of pulsed-laser-deposition-grown La_{1.85}Sr_{0.15}CuO₄/La_{2/3}Ca_{1/3}MnO₃ superlattices on (001)-oriented LaSrAlO₄ substrates*, *Phys. Rev. B* **89**, 094511 (2014), S. Das, K. Sen, I. Marozau, M. A. Uribe-Laverde, N. Biskup, M. Varela, Y. Khaydukov, O. Soltwedel, T. Keller, M. Döbeli, C. W. Schneider, and **C. Bernhard**.
49. *Influence of La and Mn vacancies on the electronic and magnetic properties of LaMnO₃ thin films grown by pulsed laser deposition*, *Phys. Rev. B* **89**, 174422 (2014), I. Marozau, P. T. Das, M. Döbeli, J. G. Storey, M. A. Uribe-Laverde, S. Das, Ch. Wang, M. Rössle, and **C. Bernhard**.
50. *Low-energy interband transitions in the infrared response of Ba(Fe_{1-x}Co_x)₂As₂*, *Phys. Rev. B* **88**, 180508(R) (2013), P. Marsik, C. N. Wang, M. Rössle, M. Yazdi-Rizi, R. Schuster, K. W. Kim, A. Dubroka, D. Munzar, T. Wolf, X. H. Chen, and **C. Bernhard**.
51. *Optical probe of ferroelectric order in bulk and thin film perovskite titanates*, *Phys. Rev. B* **88**, 104110 (2013), M. Rössle, C. N. Wang, P. Marsik, M. Yazdi-Rizi, K. W. Kim, A. Dubroka, I. Marozau, J. Humlicek, D. Baeriswyl, and **C. Bernhard**.
52. *Transient Spin Density Wave Order Induced in the Normal State of BaFe₂As₂ by Coherent Lattice Oscillations*, *Proceedings of the XVIIIth-International Conference on Ultrafast Phenomena*, EPJ Web of Conferences Vol.41, UNSP03012 (2013); K. W. Kim, A. Pashkin, H. Schafer, M. Beyer, M. Porer, T. Wolf, **C. Bernhard**, J. Demsar, R. Huber, and A. Leitenstorfer.
53. *Effect of Graphene Oxide doping on superconducting properties of bulk MgB₂*, *Supercond. Sci. Technol.* **26**, 095008 (2013), Sudesh, Nagesh Kumar, Saikat Das, **C. Bernhard**, and G. D. Varma.
54. *Depth profile of the ferromagnetic order in a YBa₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ superlattice on a LSAT substrate: A polarized neutron reflectometry study*, *Phys. Rev. B* **87**, 115105 (2013), M. A. Uribe-Laverde, D. K. Satapathy, I. Marozau, V. K. Malik, S. Das, K. Sen, J. Stahn, A. Rühm, J. H. Kim, T. Keller, A. Dewishbvil, B. P. Toperverg, and **C. Bernhard**.
55. *Importance of spin-orbit interaction for the electron spin relaxation in organic semiconductors*, *Phys. Rev. Lett.* **110**, 162602 (2013), L. Nuccio, M. Willis, L. Schulz, S. Fratini, F. Messina, M. D. Amico, F. L. Pratt, J. Lord, L. McKenzie, M. Loth, B.

Purushothaman, J. Anthony, M. Heeney, R. M. Wilson, J. Hernandez, M. Cannas, K. Sedlak, T. Kreouzis, W. P. Gillin, **C. Bernhard**, and A. J. Drew.

56. *Long-range superconducting proximity effect across a ferromagnetic insulating $LaMnO_{3+d}$ layer in $YBa_2Cu_3O_7 / LaMnO_{3+d} / YBa_2Cu_3O_7$ heterostructures*, Phys. Rev. **B 87**, 134520 (2013), T. Golod, A. Rhyd, V. M. Krasnov, I. Marozau, M. A. Uribe-Laverde, D. K. Satapathy, Th. Wagner, and **C. Bernhard**.

57. *Electric-field-induced polar order and localization of the confined electrons in $LaAlO_3/SrTiO_3$ heterostructures*, Phys. Rev. Lett. **110**, 136805 (2013), M. Rössle, K. W. Kim, A. Dubroka, P. Marsik, C. N. Wang, R. Jany, C. Richter, J. Mannhart, C. W. Schneider, A. Frano, P. Wochner, Y. Lu, B. Keimer, D. K. Shukla, J. Stempfer, and **C. Bernhard**.

58. *Far-infrared spectra of the magnetic exchange resonances and optical phonons and their connection to magnetic and dielectric properties of $Dy_3Fe_5O_{12}$ garnet*, Phys Rev. **B86**, 144112 (2012), T. D. Kang, E. C. Standard, P. D. Rogers, K. H. Ahn, A. Sirenko, A. Dubroka, **C. Bernhard**, S. Park, Y. J. Choi, and S. W. Cheong.

59. *Muon spin rotation study of magnetism and superconductivity in $Ba(Fe_{1-x}Co_x)_2As_2$ single crystals*, Phys. Rev. **B 86**, 184509 (2012), **C. Bernhard**, C. N. Wang, L. Nuccio, L. Schulz, O. Zaharko, J. Larsen, C. Aristizabal, M. Willis, A. J. Drew, G. D. Varma, T. Wolf, and Ch. Niedermayer.

60. *Spatially resolved strain-imprinted magnetic states in an artificial multiferroic*, Phys. Rev. **B 86**, 014408 (2012), R. V. Chopdekar, V. K. Malik, A. Fraile Rodriguez, L. Le Guyader, Y. Takamura, A. Scholl, D. Stender, C. W. Schneider, **C. Bernhard**, F. Nolting, and L. J. Heyderman.

61. *Macrosocopic phase segregation in superconducting $K_{0.73}Fe_{1.67}Se_2$ as seen by muon spin rotation and infrared spectroscopy*, Phys. Rev. **B 85**, 214503 (2012), C. N. Wang, P. Marsik, R. Schuster, A. Dubroka, M. Rössle, Ch. Niedermayer, G. D. Varma, A. F. Wang, X. H. Chen, T. Wolf, and **C. Bernhard**.

62. *Ultrafast transient generation of spin density wave order in the normal state of $BaFe_2As_2$ driven by coherent lattice vibrations*, Nature Mater. **11**, 497 (2012), K. W. Kim, A. Pashkin, H. Schäfer, M. Beyer, M. Porer, T. Wolf, **C. Bernhard**, J. Demsar, R. Huber, and A. Leitenstorfer.

63. *Magnetic Proximity effect in $YBa_2Cu_3O_7/La_{1-x}Ca_xMnO_3$ superlattices*, Phys. Rev. Lett. **108**, 197201 (2012), D. K. Satapathy, M. A. Uribe-Laverde, I. Marozau, V. K. Malik, S. Das, Th. Wagner, C. Marcelot, J. Stahn, S. Brück, A. Rühm, S. Macke, T. Tietze, E. Göring, A. Franko, J. H. Kim, M. Wu, E. Benckiser, B. Keimer, A. Deviashvili, B. P. Toperverg, M. Merz, P. Nagel, S. Schuppler, and **C. Bernhard**.

64. *Effect of Fe composition on the superconducting properties (T_c , H_{c2} and H_{irr}) of $Fe_xe_{1/2}Te_{1/2}$ ($x=0.95, 1.00, 1.05$ and 1.10)*, J. Appl. Phys. **111**, 07E119 (2012), S. Sudesh, S. Rani, S. Das, R. Rawat, **C. Bernhard**, and G.D. Varma.

65. *Pulsed laser deposition growth of heteroepitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ superlattices on NdGaO_3 and $\text{Sr}_{0.7}\text{La}_{0.3}\text{Al}_{0.65}\text{Ta}_{0.35}\text{O}_3$ substrates*, Phys. Rev. **B 85**, 054514 (2012), V. K. Malik, I. Marozau, S. Das, B. Doggett, D. K. Satapathy, M. A. Uribe-Laverde, N. Biskup, M. Varela, C. W. Schneider, C. Marcelot, J. Stahn, and **C. Bernhard**.
66. *Magnetism, superconductivity and coupling in cuprate heterostructures probed by low-energy muon-spin rotation*, Phys. Rev. **B 85**, 024505 (2012), B. M. Wojek, E. Morenzoni, D. G. Eshchenko, A. Suter, T. Prokscha, H. Keller, O. Fischer, V. K. Malik, **C. Bernhard**, and M. D. Tobelis.
67. *High temperature magnetic order in Zinc sulfide doped with copper*, J. Phys. Chem. of Solids **72**, 648 (2011), F. J. Owens, L. Gladczuk, K. Szymczak, P. Dluzekski, A. Wisniewski, H. Szymczak, A. Golnik, **C. Bernhard**, and C. Niedermayer.
68. *Electron spin relaxation in organic semiconductors probed through μSR* , J. Phys: Conf. Ser. **292**, 012004 (2011), L. Nuccio, L. Schulz, M. Willis, F. L. Pratt, M. Heeney, N. Stingelin, **C. Bernhard**, and A. J. Drew.
69. *Dimensionality Control of Electronic Phase Transitions in Nickel-Oxide Superlattices*, Science **332**, 937 (2011), A. V. Boris, Y. Matkis, E. Benckiser, A. Frano, P. Popovich, V. Hinkov, P. Wochner, M. Castro Colin, E. Detemple, V. K. Malik, **C. Bernhard**, T. Prokscha, A. Suter, Z. Salaman, E. Morenzoni, G. Cristiani, H.-U. Habermeier, and B. Keimer.
70. *Importance of intramolecular electron spin relaxation in small molecule semiconductors*, Phys. Rev. **B 84**, 085209 (2011), L. Schulz, M. Willis, L. Nuccio, P. Susharov, S. Fratini, F. L. Pratt, W. P. Gillins, T. Kreuzis, M. Heeney, N. Stingelin, C. A. Stafford, D. J. Beeleys, **C. Bernhard**, J. E. Anthony, I. Mckenzie, J. S. Lord, and A. J. Drew.
71. *Optical identification of hybrid magnetic and electric excitations in $\text{Dy}_3\text{Fe}_5\text{O}_{12}$ garnet*, Phys. Rev. **B 83**, 174407 (2011), P. D. Rogers, Y. J. Choi, E. Standard, T. D. Kang, K. H. Ahn, A. Dubroka, P. Marsik, Ch. Wang, **C. Bernhard**, S. Park, S-W. Cheong, M. Kotelyanskii, and A. A. Sirenko.
72. *Evidence of precursor superconductivity as high as 180K from infrared spectroscopy*, Phys. Rev. Lett. **106**, 047006 (2011), A. Dubroka, M. Rössle, K. W. Kim, V. K. Malik, D. Munzar, D. N. Basov, A. Schafgans, S. J. Moon, C. T. Lin, D. Haug, V. Hinkov, B. Keimer, Th. Wolf, J. G. Storey, J. L. Tallon, and **C. Bernhard**.
73. *Engineering spin propagation across a hybrid organic-inorganic interface with a polar layer*, Nature Mater. **10**, 39 (2011), L. Schulz, L. Nuccio, M. Willis, P. Desai, P. Shakya, T. Kreuzis, V. K. Malik, **C. Bernhard**, F. L. Pratt, N. A. Morley, A. Suter, G. J. Nieuwenhuys, T. Prokscha, E. Morenzoni, W. P. Gillin, and A. J. Drew.
74. *Temperature dependence of the superconductivity-induced collective mode in the c-axis infrared spectra of bilayer cuprate superconductors*, Physica **C 470**, S75 (2010), D. Munzar, J. Chaloupka, **C. Bernhard**, A. Dubroka, and J. Vasatko.

75. *Polarised neutron reflectometry study of the magnetisation reversal in $YBa_2Cu_3O_7/La_{2/3}Ca_{1/3}MnO_3$ superlattices grown on $SrTiO_3$ substrates*, Phys. Rev. **B 82**, 174439 (2010), J. Hoppler, H. Fritsche, V. K. Malik, J. Stahn, G. Cristiani, H. U. Habermeier, M. Rössle, J. Honolka, A. Enders, and **C. Bernhard**.
76. *A Femtosecond Multi-Terahertz View of the Phonon and Quasiparticle Dynamics in Superconducting $YBa_2Cu_3O_{7-\delta}$* , in Proceedings of 2010 Conference on Lasers and Electro-Optics and Quantum Electronics and Laser Science Conference, (2010); M. Porer, A. Pashkin, M. Beyer, J. Hess, K. W. Kim, **C. Bernhard**, X. Yao, Y. Dagan, R. Hackl, A. Erb, J. Demsar, A. Leitenstorfer, and R. Huber.
77. *Pseudogap and precursor superconductivity in underdoped cuprate high temperature superconductors: a far-infrared ellipsometry study*, Eur. Phys. J. Special Topics **188**, 73 (2010), A. Dubroka, D. Munzar, K. W. Kim, M. Rössle, V. K. Malik, C. T. Lin, B. Keimer, Th. Wolf, and **C. Bernhard**.
78. *Coexistence and competition of magnetism and superconductivity on the nanometer scale in underdoped $BaFe_{1.89}Co_{0.11}As_2$* , Phys. Rev. Lett. **105**, 057001 (2010), P. Marsik, K. W. Kim, A. Dubroka, M. Rössle, V. K. Malik, L. Schulz, C. N. Wang, Ch. Niedermayer, A. J. Drew, M. Willis, T. Wolf, and **C. Bernhard**.
79. *Incommensurate magnetic order and dynamics induced by spinless impurities in $YBa_2Cu_3O_{6.6}$* , Phys. Rev. Lett. **105**, 037207 (2010), A. Suchanek, V. Hinkov, D. Haug, L. Schulz, **C. Bernhard**, A. Ivanov, K. Hradil, C. T. Lin, P. Bourges, B. Keimer, and Y. Sidis.
80. *Femtosecond quasiparticle and phonon dynamics in superconducting $YBa_2Cu_3O_7$ studied by ultrabroadband terahertz spectroscopy*, Phys. Rev. Lett. **105** 067001 (2010), A. Pashkin, M. Porer, M. Beyer, J. J. Hees, K. W. Kim, A. Dubroka, **C. Bernhard**, X. Yaos, Y. Dagan, R. Hackl, A. Erb, J. Demsar, R. Huber, and A. Leitenstorfer.
81. *Evidence for multiple superconducting gaps in $BaFe_{1.87}Co_{0.13}As_2$ from infrared spectroscopy*, Phys. Rev. **B 81**, 214508 (2010), K. W. Kim, M. Rössle, A. Dubroka, V. K. Malik, T. Wolf, and **C. Bernhard**.
82. *Dynamical Response and confinement of the electrons at the $LaAlO_3/SrTiO_3$ interface*, Phys. Rev. Lett. **104**, 156807 (2010), A. Dubroka, M. Roessle, K. W. Kim, V. K. Malik, L. Schulz, S. Thiel, C. W. Schneider, J. Mannhart, G. Herranz, O. Copie, M. Bibes, A. Barthelemy, and **C. Bernhard**.
83. *The effect of Pr_6O_{11} doping on superconducting properties of MgB_2* , Phys. Stat. Sol. (a), Vol. **207**, 175 (2010), N. Ojha, V. K. Malik, **C. Bernhard**, and G. D. Varma.
84. *Two dimensional confinement of 3d electrons in $LaTiO_3/LaAlO_3$ multilayers*, Phys. Rev. Lett. **104**, 036401 (2010), S. S. A. Seo, M. J. Han, G. W. Hassink, W. S. Choi, S. J. Moon, Y. S. Lee, S. J. Moon, Y. S. Lee, J. Yu, **C. Bernhard**, H. Y. Hwang, G. Rijnders, D. H. A. Blank, B. Keimer, and T. W. Noh.

85. *The effect of citric and oxalic acid doping on the superconducting properties of MgB₂*, Supercond. Sci. Technol. **22**, 125014 (2009), N. Ojah, V. K. Malik, R. Singla, **C. Bernhard**, and G. D. Varma.
86. *Enhanced superconducting properties of Eu₂O₃ doped MgB₂*, Physica **C 469**, 846 (2009), N. Ojha, V.K. Malik, **C. Bernhard**, and G. D. Varma.
87. *Muon spin rotation study of magnetism and superconductivity in BaFe_{2-x}Co_xAs₂ and Pr_{1-x}Sr_xFeAsO*, New J. Phys. **11**, 055050 (2009), **C. Bernhard**, A. J. Drew, L. Schulz, V. K. Malik, M. Rössle, Ch. Niedermayer, Th. Wolf, G. D. Varma, G. Mu, H.-H. Wen, G. Wu, and X. H. Chen.
88. *Microscopic gauge-invariant theory of the c-axis infrared response of bilayer cuprate superconductors and the origin of superconductivity induced absorption bands*, Phys. Rev **B 79**, 184513 (2009), J. Chaloupka, **C. Bernhard**, and D. Munzar.
89. *Coexistence of static magnetism and superconductivity in SmFeAsO_{1-x}F_x as revealed by muon spin rotation*, Nature Mater. **8**, 310 (2009), A. J. Drew, Ch. Niedermayer, P. J. Baker, F. L. Pratt, S. J. Blundell, T. Lancaster, R. H. Liu, G. Wu, X. H. Chen, I. Watanabe, V. K. Malik, A. Dubroka, M. Rössle, K. W. Kim, C. Baines, and **C. Bernhard**.
90. *Superconductivity-induced modulation of ferromagnetic order in an oxide superlattice*, Nature Mater. **8**, 315 (2009), J. Hoppler, J. Stahn, Ch. Niedermayer, V. K. Malik, A. J. Drew, M. Rössle, A. Buzdin, G. Cristiani, H. U. Habermeier, B. Keimer and **C. Bernhard**.
91. *Direct measurements of the spin polarization of injected electrons into the spacer layer of an organic spin valve*, Nature Mater. **8**, 109 (2009), A. J. Drew, J. Hoppler, L. Schulz, F. L. Pratt, P. Desai, P. Shaky, T. Kreouzis, W. P. Gillin, A. Suter, N. A. Morley, V. K. Malik, H. Bouyanfif, K. W. Kim, A. Dubroka, F. Bourqui, **C. Bernhard**, R. Scheuermann, T. Prokscha, G.J. Niewenhuys, and E. Morenzoni.
92. *Bandwidth-controlled insulator-metal transition and correlated metallic state in 5d Sr_{n+1}Ir_nO_{3n+1} (n=1, 2, and ∞)*, Phys. Rev. Lett. **101**, 226402 (2008), S. J. Moon, H. Jin, K. W. Kim, W. S. Choi, Y. S. Lee, V. Durairaj, G. Cao, A. Sumi, H. Funakubo, **C. Bernhard**, and T. W. Noh.
93. *X-ray study of structural domains in the near surface region of SrTiO₃ substrates with Y_{0.6}Pr_{0.4}Ba₂Cu₃O₇/La_{2/3}Ca_{1/3}MnO₃ superlattices grown on top*, Phys. Rev. **B 78**, 134111 (2008), J. Hoppler, J. Stahn, H. Boujanfif, V. K. Malik, B. D. Patterson, P. R. Willmot, G. Cristiani, H. U. Habermeier, and **C. Bernhard**.
94. *Broad-band infrared ellipsometry measurements of the c-axis response of underdoped YBa₂Cu₃O₇: Spectroscopic distinction between the normal state pseudogap and the superconducting gap*, J. Phys. Chem. Solids **69**, 3064-3069 (2008), **C. Bernhard**, Li Yu, A. Dubroka, K. W. Kim, M. Rössle, D. Munzar, J. Chaloupka, C. T. Lin, and Th. Wolf.
95. *Superconducting energy gap and c-axis plasma frequency of (Nd,Sm) FeAs O_{0.82}F_{0.18}*

- superconductors from infrared ellipsometry*, Phys. Rev. Lett. **101**, 097011 (2008), A. Dubroka, K. W. Kim, M. Rössle, V. K. Malik, A. J. Drew, R. H. Liu, G. Wu, X. H. Chen, and **C. Bernhard**.
96. *Coexistence of magnetism and superconductivity in the pnictide high temperature superconductor $\text{SmFeAsO}_{0.82}\text{F}_{0.18}$ measured by muon spin rotation*, Phys. Rev. Lett. **101**, 097010 (2008), A. J. Drew, F. L. Pratt, T. Lancaster, S. J. Blundell, P. J. Baker, R. H. Liu, G. Wu, X. H. Chen, I. Watanabe, V. K. Malik, A. Dubroka, K. W. Kim, M. Rössle, and **C. Bernhard**.
97. *Spectroscopic distinction between normal state pseudogap and superconducting gap of cuprate high T_c superconductors*, Phys. Rev. Lett. **100** 177004 (2008), Li Yu, D. Munzar, A. V. Boris, P. Yordanov, J. Chaloupka, Th. Wolf, C. T. Lin, B. Keimer, and **C. Bernhard**.
98. *Charge dynamics of doped holes in high T_c cuprates – A clue from optical conductivity*, Phys. Rev. Lett. **100**, 166401 (2008), A. S. Mishchenko, N. Nagaosa, Z.-X. Shen, G. De Filippis, V. Cataudella, T. P. Devereaux, **C. Bernhard**, K. W. Kim, and J. Zaanen.
99. *Electronic Liquid Crystal State in the High Temperature Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.45}$* , Science **319**, 597 (2008), V. Hinkov, D. Haug, Ph. Bourges, B. Fauqué, Y. Sidis, A. Ivanov, **C. Bernhard**, and B. Keimer.
100. *Optical study of the free carrier response of $\text{LaTiO}_3/\text{SrTiO}_3$ superlattices*, Phys. Rev. Lett. **99**, 266801 (2007), S. S. A. Seo, W. S. Choi, H. N. Lee, Li Yu, K. W. Kim, **C. Bernhard**, and T. W. Noh.
101. *Optical response of ferromagnetic YTiO_3 studied by spectral ellipsometry*, Phys. Rev. **B 76**, 155125 (2007), N. N. Kovaleva, A. V. Boris, P. Yordanov, A. Maljuk, E. Brücher, J. Stempfer, M. Konuma, I. Zekinoglou, **C. Bernhard**, M. Stoneham, and B. Keimer.
102. *Muon spin rotation study of magnetism in Na_xCoO_2 single crystals with $0.78 \leq x \leq 0.97$* , EPL **80**, 27005 (2007), **C. Bernhard**, Ch. Niedermayer, A. Drew, G. Khaliullin, S. Bayrakci, J. Stempfer, R. K. Kremer, D. P. Chen, C. T. Lin, and B. Keimer.
103. *Isotope effects on the optical phonons of $\text{YBa}_2\text{Cu}_4\text{O}_8$ studied by far infrared ellipsometry and Raman scattering*, Phys. Rev. **B 74**, 104513 (2006), A. Trajnerowicz, A. Golnik, **C. Bernhard**, L. Machtoub, C. Ulrich, J. L. Tallon, and M. Cardona.
104. *Electronic phase separation in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4+y}$* , Nature Mater. **5**, 377 (2006), H. E. Mohottala, B. O. Wells, J. I. Budnick, W. A. Hines, C. Niedermayer, **C. Bernhard**, A. R. Moodenbaugh, and F. C. Chou.
105. *Raman scattering study of $\text{Ru}(\text{Sr},\text{La})_2\text{GdCu}_2\text{O}_8$* , Phys. Rev. **B 73**, 172502 (2006), V. Damjanovic, C. Ulrich, **C. Bernhard**, and B. Keimer.
106. *The ruthenocuprates: natural superconductor-ferromagnet multilayers*, Comptes Rendus Physique **7**, 68 (2006), T. Nachtrab, **C. Bernhard**, C. T. Lin, D. Kölle, and R. Kleiner.
107. *Magnetism at the interface between ferromagnetic and superconducting oxides*, Nature

- Phys. **2**, 244 (2006), J. Chakhalian, J. W. Freeland, G. Srajer, J. Stremper, G. Khaliullin, J. Cezar, T. Charlton, R. Daglish, **C. Bernhard**, G. Cristiani, H. U. Habermeier, and B. Keimer.
108. *Superconductivity in epitaxial films of $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$* , Appl. Phys. Lett. **88**, 162501 (2006), Y. Krockenberger, I. Fritsch, M. Pavelka, G. Cristiani, H. U. Habermeier, Li Yu, **C. Bernhard**, B. Keimer, and L. Alff.
109. *Electronic phase separation in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4+y}$* , Physica **B 374**, 199 (2006), H. E. Mohottala, B. O. Wells, J. I. Budnick, W. A. Hines, C. Niedermayer, **C. Bernhard**, A. R. Moodenbaugh, and F. C. Chou.
110. *Magnetoresistance effects in SrFeO_{3-d} : Dependence on phase composition and relation to magnetic and charge order*, Phys. Rev. **B 73**, 094451 (2006), P. Adler, A. Lebon, V. Damjanovic, C. Ulrich, **C. Bernhard**, A. V. Boris, A. Maliuk, C. T. Lin, and B. Keimer.
111. *Low Energy Excitations in $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$ Investigated by Ellipsometry*, Phys. Rev. **B 72**, 214437 (2005), O. Ripeka Mercier, R. G. Buckley, H. J. Trodahl, **C. Bernhard**, and G. Balakrishnan.
112. *Orbital ordering transition in Ca_2RuO_4 observed with resonant x-ray diffraction*, Phys. Rev. Lett. **95**, 136401 (2005), I. Zegkinoglou, J. Stremper, C. S. Nelson, J. P. Hill, J. Chakhalian, **C. Bernhard**, J. C. Lang, G. Srajer, H. Fukazawa, S. Nakatsuji, Y. Maeno, and B. Keimer.
113. *Nanoscale phase transformations in relaxor-ferroelectric lead scandium niobate and lead scandium titanate*, Zeitschrift für Kristallographie **220**, 740 (2005), Boriana Mihailova, Ulrich Bismayer, Bernd Güttler, Marin Gospodinov, Alexander Boris, **Christian Bernhard**, and Mois Aroyo.
114. *In-plane infrared response of the high- T_c cuprate superconductors: the spin-fluctuation-based interpretation revisited*, Phys. Rev. **B 72**, 134526 (2005), P. Cášek, **C. Bernhard**, J. Humlicek and D. Munzar.
115. *Absence of an isotope effect in the magnetic resonance peak in high- T_c superconductors*, Phys. Rev. **B 71**, 220507(R) (2005), S. Pailhes, P. Bourges, Y. Sidis, **C. Bernhard**, B. Keimer, C. T. Lin, J. L. Tallon.
116. *Ni impurity induced enhancement of the pseudogap in cuprate high T_c superconductors*, Phys. Rev. Lett. **94**, 227003 (2005), A. V. Pimenov, A. V. Boris, Li Yu, V. Hinkov, Th. Wolf, J. L. Tallon, B. Keimer, and **C. Bernhard**.
117. *Magnetic proximity effect in Perovskite Superconductor/Ferromagnet Multilayers*, Phys. Rev. **B 71**, 140509(R) (2005), J. Stahn, J. Chakhalian, Ch. Niedermayer, J. Hoppler, T. Gutberlet, J. Voigt, F. Treubel, H-U. Habermeier, G. Cristiani, B. Keimer, and **C. Bernhard**.
118. *Charge ordering and magneto-polarons in $\text{Na}_{0.82}\text{CoO}_2$* , Phys. Rev. Lett. **93**, 167003 (2004), **C. Bernhard**, A. V. Boris, N. N. Kovaleva, G. Khaliullin, A. Pimenov, D. P. Chen, C. T. Lin, and B. Keimer.

119. *Oxygen superstructures throughout the phase diagram of $(Y,Ca)Ba_2Cu_3O_{6+x}$* , Phys. Rev. Lett. **93** 157007 (2004), J. Stempfer, I. Zegkinoglou, U. Rütt, M.v. Zimmermann, **C. Bernhard**, C. T. Lin, Th. Wolf, and B. Keimer.
120. *Spin-controlled Mott-Hubbard bands in $LaMnO_3$ probed by optical ellipsometry*, Phys. Rev. Lett. **93**, 147204 (2004), N. N. Kovaleva, A. V. Boris, **C. Bernhard**, A. Kulakov, A. Pimenov, A. M. Balbashov, G. Khaliullin, and B. Keimer.
121. *Two-dimensional geometry of spin excitations in the high-temperature superconductor $YBa_2Cu_3O_{6+x}$* , Nature **430**, 650 (2004), T. V. Hinkov, S. Pailhès, P. Bourges, Y. Sidis, A. Ivanov, A. Kulakov, C. T. Lin, **C. Bernhard**, and B. Keimer.
122. *The in-plane spectral weight of charge carriers in $YBa_2Cu_3O_{6.9}$: Evidence against kinetic energy driven pairing*, Science **304**, 708 (2004), A. V. Boris, N. N. Kovaleva, T. Holden, O. V. Dolgov, C. T. Lin, B. Keimer, and **C. Bernhard**.
123. *Phase evolution, structural and superconducting properties of Pb-free $Bi_2Sr_2Ca_2Cu_3O_{10+d}$ single crystals*, Supercond. Sci. Technol. **17** (2004), 731, B. Liang, **C. Bernhard**, Th. Wolf and C. T. Lin.
124. *Bulk antiferromagnetism in $Na_{0.82}CoO_2$ single crystals*, Phys. Rev. **B 69**, 100410 (2004), S. Bayrakci, **C. Bernhard**, D. P. Chen, B. Keimer, R. K. Kremer, P. Lemmens, C. T. Lin, C. Niedermayer, and J. Stempfer.
125. *Intrinsic Josephson Effects in the Magnetic Superconductor $RuSr_2GdCu_2O_8$* , Phys. Rev. Lett. **92**, 117001 (2004), T. Nachtrab, D. Kölle, R. Kleiner, **C. Bernhard**, and C. T. Lin.
126. *C axis lattice dynamics in Bi-based cuprate superconductors*, Phys. Rev **B 69**, 054511 (2004), N. N. Kovaleva, A. V. Boris, T. Holden, C. Ulrich, J. L. Tallon, D. Munzar, A. M. Stoneham, B. Liang, C.T. Lin, B. Keimer, and **C. Bernhard**.
127. *Proximity induced metal-insulator transition in $YBa_2Cu_3O_7/La_{2/3}Ca_{1/3}MnO_3$ superlattices*, Phys. Rev. **B 69**, 064505 (2004), T. Holden, H. U. Habermeier, G. Cristiani, A. Golnik, A. Boris, A. Pimenov, J. Humlicek, O. Lebedev, and G. Van Tendeloo, B. Keimer, and **C. Bernhard**.
128. *Oxygen isotope effect on the in-plane electronic response of $YBa_2Cu_3^{16,18}O_{6.9}$* , Phys. Rev. **B 69**, 052502 (2004), **C. Bernhard**, T. Holden, A. Boris, N.N. Kovaleva, A. Pimenov, J. Humlicek, C. T. Lin, and J. L. Tallon.
129. *Magnetism, charge order and giant magnetoresistance in $SrFeO_{3-\delta}$ single crystals*, Phys. Rev. Lett. **92**, 037202 (2004), A. Lebon, P. Adler, **C. Bernhard**, A.V. Boris, A. Pimenov, A. Maljuk, C. T. Lin, C. Ulrich, and B. Keimer.
130. *Far infrared ellipsometry using a synchrotron light source – the dielectric response of the cuprate high T_c superconductors*, Thin Solid Films **455-456**, 143 (2004), **C. Bernhard**, J. Humlicek and B. Keimer.
131. *Diffraction effects in infrared ellipsometry of conducting samples*, Thin Solid Films **455-**

456, 177 (2004), J. Humlicek and **C. Bernhard**.

132. *Superfluid density in cuprate high- T_c superconductors: A new paradigm*, Phys. Rev. **B 68**, 180501 (2003), J. L. Tallon, J. W. Loram, J. R. Cooper, C. Panagopoulos, and **C. Bernhard**.

133. *Two resonant magnetic modes in an overdoped high T_c superconductor*, Phys. Rev. Lett. **91**, 237002 (2003), S. Pailhes, Y. Sidis, P. Bourges, C. Ulrich, V. Hinkov, L. P. Regnault, A. Ivanov, B. Liang, C. T. Lin, **C. Bernhard**, and B. Keimer.

134. *Magneto-transport properties of doped $RuSr_2GdCu_2O_8$* , Phys. Rev. **B 68**, 064514 (2003), J. E. McCrone, J. L. Tallon, J. R. Cooper, A. C. MacLaughlin, J. P. Attfield, and **C. Bernhard**.

135. *Approximate tight binding sum rule for the superconductivity related change of c-axis kinetic energy in multilayer cuprate superconductors*, Phys. Rev. **B 67**, 020501 (2003), D. Munzar, T. Holden, and **C. Bernhard**.

136. *Josephson-plasma-resonance and phonon anomalies in $Bi_2Sr_2Ca_2Cu_3O_{10}$* , Phys. Rev. Lett. **89**, 277001 (2002), A.V. Boris, D. Munzar, N. N. Kovaleva, B. Liang, C. T. Lin, A. Dubroka, A. V. Pimenov, T. Holden, B. Keimer, Y. L. Mathis, and **C. Bernhard**.

137. *Phonon Anomalies in the infrared conductivity of the $RuSr_2GdCu_2O_8$ ferromagnetic superconductor*, Physica **B 312**, 797 (2002), A. V. Boris, **C. Bernhard**, N. N. Kovaleva, P. Mandal, and A. Loidl.

138. *Structural and magnetic instabilities of $La_{2-x}Sr_xCaCu_2O_6$* , Phys. Rev. **B 65**, 220507 (2002), C. Ulrich, S. Kondo, M. Reehius, H. He, **C. Bernhard**, C. Niedermayer, F. Bouree, P. Bourges, M. Ohl, H.M. Ronnow, H. Takagi, and B. Keimer.

139. *Muon-spin-relaxation study of the magnetic penetration depth in MgB_2* , Phys. Rev. **B 65**, 094512 (2002), Ch. Niedermayer, **C. Bernhard**, T. Holden, R.K. Kremer, and K. Ahn.

140. *In-plane polarized collective modes in detwinned $YBa_2Cu_3O_{6.95}$ observed by spectral ellipsometry*, Solid State Commun. **121**, 93 (2002), **C. Bernhard**, T. Holden, J. Humlicek, D. Munzar, M. Cardona, and B. Keimer.

141. *Single crystals of $RuSr_2GdCu_2O_{8-\delta}$* , Physica **C 364-365**, 373 (2001), C. T. Lin, B. Liang, C. Ulrich, and **C. Bernhard**.

142. *Optical properties of the organic metal (BEDT-TTF)(4) [Ni(dto)(2)]*, SYNTHETIC MET **120** (1-3): 731 Sp. Iss. SI MAR 15 (2001), Griesshaber E, Haas P, Thoms J, A. Darjushkin, B. P. Gorshunov, M. Dressel, D. Schweitzer, R. K. Kremer, A. Golnik, **C. Bernhard**, M. Cardona, T. Klaus, and W. Stunz.

143. *Antiferromagnetic ordering in superconducting $YBa_2Cu_3O_{6.5}$* , Phys. Rev. Lett. **86**, 4100 (2001), Y. Sidis, C. Ulrich, P. Bourges, **C. Bernhard**, Ch. Niedermayer, L. P. Regnault, and B. Keimer.

144. *Phonon anomalies and electron-phonon interaction in $RuSr_2GdCu_2O_8$ ferromagnetic superconductor: Evidence from infrared conductivity*, Phys. Rev. **B 63**, 184505 (2001), A. V.

- Boris, P. Mandal, **C. Bernhard**, N. N. Kovaleva, K. Pucher, J. Hemberger, and A. Loidl.
145. *Correlation between the Josephson coupling energy and the condensation energy in bilayer cuprate superconductors*, Phys. Rev. **B 64**, 024523 (2001), D. Munzar, **C. Bernhard**, T. Holden, A. Golnik, J. Humlicek, and M. Cardona.
146. *Anomalous peak in the superconducting condensate density of cuprate high T_c superconductors at a unique doping state*, Phys. Rev. Lett. **86**, 1614 (2001), **C. Bernhard**, J. L. Tallon, T. Blasius, A. Golnik, and Ch. Niedermayer.
147. *Raman scattering from magnetic excitations in ruthenate-cuprates*, Physica **C 341**, 2255 (2000), V. G. Hadjiev, **C. Bernhard**, C. T. Lin, T. Ruf, M. Cardona, and J. L. Tallon.
148. *Transverse-Field Muon Spin-Relaxation Investigation of the Magnetic Penetration Depth in the Carbide Superconductors $Y_2C_2(Br,I)_2$ and YC_2* , Phys. Rev. **B 62**, 14469 (2000), R. W. Henn, **C. Bernhard**, R. K. Kremer, Th. Gulden, and A. Simon.
149. *Far-infrared c-axis conductivity of flux-grown $Y_{1-x}Pr_xBa_2Cu_3O_7$ single crystals studied by spectral ellipsometry*, Phys. Rev. **B 62**, 9138 (2000), **C. Bernhard**, T. Holden, A. Golnik, C. T. Lin and M. Cardona.
150. *Antiferromagnetic order of Ru and Gd in superconducting $RuSr_2GdCu_2O_8$* , Phys. Rev. **B 61**, 14964 (2000), J. W. Lynn, B. Keimer, C. Ulrich, **C. Bernhard**, and J. L. Tallon.
151. *Evidence for a transition from a bulk Meissner state to a spontaneous vortex phase in $RuSr_2GdCu_2O_8$ from DC magnetisation measurements*, Phys. Rev. **B 61**, 14960(R) (2000), **C. Bernhard**, J. L. Tallon, E. Brücher, and R. K. Kremer.
152. *Heat Capacity and transport studies of the ferromagnetic superconductor $RuSr_2GdCu_2O_8$* , Phys. Rev. **B 61**, 6471(R) (2000), J. L. Tallon, J. W. Loram, G. V. M. Williams, and **C. Bernhard**.
153. *Soft mode hardening in $SrTiO_3$ thin films*, Nature **404**, 373 (2000), A. A. Sirenko, **C. Bernhard**, A. Golnik, A. M. Clark, J. Hao, W. Si, and X. X. Xi.
154. *Anomaly of the oxygen bond-bending mode at 320 cm^{-1} and additional absorption peak in c-axis infrared conductivity of underdoped $YBa_2Cu_3O_{7-\delta}$ single crystals revisited with ellipsometric measurements*, Phys. Rev. **B 61**, 618, (2000), **C. Bernhard**, D. Munzar, A. Golnik, C. T. Lin, A. Wittlin, J. Humlicek, and M. Cardona.
155. *Low temperature vortex structures in underdoped $Bi_2Sr_2CaCu_2O_{8+\delta}$* , Physica **B 289-290**, 365 (2000), T. Blasius, Ch. Niedermayer, J. L. Tallon, D. M. Pooke, D. R. Noakes, C. E. Stronach, E. J. Ansaldo, A. Golnik, and **C. Bernhard**.
156. *Critical doping in overdoped high- T_c superconductors: a quantum critical point?*, Phys. Stat. Sol. **(b) 215**, 531 (1999), J. L. Tallon, J. W. Loram, G. V. M. Williams, J. R. Cooper, I. R. Fisher, J. D. Johnson, M. P. Stains, and **C. Bernhard**.
157. *The far-infrared in-plane conductivity of YBCO studied by ellipsometry*, Phys. Stat. Sol.

- (b), Vol. **215**, 553 (1999), A. Golnik, **C. Bernhard**, J. Humlicek, M. Kläser, and M. Cardona.
158. *Electronic Raman Scattering in $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ Single Crystals*, Phys. Stat. Sol. (b), Vol. **215**, 477 (1999), A. A. Martin, V. G. Hadjiev, **C. Bernhard**, T. Ruf, M. Cardona, and T. Wolf.
159. *A New Interpretation of the Phonon Anomalies in the Far-Infrared c-Axis Conductivity of Underdoped $YBa_2Cu_3O_y$* , Phys. Stat. Sol. (b), Vol. **215**, 557 (1999), D. Munzar, **C. Bernhard**, A. Golnik, J. Humlicek, and M. Cardona.
160. *Electrical Transport and Magnetic Properties of Single Crystals of the Colossal Magnetoresistance (CMR) Manganite System $RE_{0.67}Sr_{0.01}Pb_{0.32}MnO_3$, $RE=(Nd,Pr,La)$* , Phys. Stat. Sol. (b), Vol. **215**, 685 (1999), C. T. Lin and **C. Bernhard**.
161. *Investigation of the Vortex Matter in $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals*, High Temperature Superconductivity, ed. By S.E. Barnes et al., (AIP CP483, 1999) pp201-6, T. Blasius, Ch. Niedermayer, J. Schiessling, U. Bolz, J. Eisenmenger, B. U. Runge, P. Leiderer, J. L. Tallon, D. M. Pooke, A. Golnik, C. T. Lin, and **C. Bernhard**.
162. *Anomalies of the infrared-active phonons in underdoped YBCO as an evidence for the intrabilayer Josephson effect*, Solid State Commun. **112**, 365 (1999), D. Munzar, **C. Bernhard**, A. Golnik, J. Humlicek, and M. Cardona.
163. *Muon Spin Rotation Studies of the vortex matter in the high T_c superconductor $Bi_2Sr_2CaCu_2O_{8+\delta}$* , Acta, Physica Polonica **A96** (2) (1999), T. Blasius, Ch. Niedermayer, J. L. Tallon, D. M. Pooke, A. Golnik, D. R. Noakes, C. E. Stronach, E. J. Ansaldo, R. W. Henn, C. T. Lin, and **C. Bernhard**.
164. *Electronic Raman Scattering of Optimal and Overdoped $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ Single Crystals*, Phys. Stat. Sol. (b), Vol. **214**, R21 (1999), A. A. Martin, V. G. Hadjiev, **C. Bernhard**, T. Ruf, M. Cardona, and T. Wolf.
165. *Coexistence of Ferromagnetism and Superconductivity in the Hybrid Ruthenate-Cuprate Compound $RuSr_2GdCu_2O_8$ studied by Muon Spin Rotation (μ SR) and DC-magnetization*, Phys. Rev. **B 59**, 14099 (1999), **C. Bernhard**, J. L. Tallon, Ch. Niedermayer, Th. Blasius, A. Golnik, E. Brücher, R. K. Kremer, D. R. Noakes, C. E. Stronach, and E. J. Ansaldo.
166. *Thermodynamic, transport and magnetic properties of the ferromagnetic superconductor $RuSr_2GdCu_2O_8$ and related compounds*, J. Low. Temp. Phys. **117**, 823 (1999), J. L. Tallon, **C. Bernhard**, and J. W. Loram.
167. *Evidence for a Two-Stage Melting Transition in the Vortex Matter of $Bi_2Sr_2CaCu_2O_{8+\delta}$ Single Crystals obtained by Muon Spin Rotation*, Phys. Rev. Lett. **82**, 4926 (1999), T. Blasius, Ch. Niedermayer, D. M. Pooke, J.L. Tallon, and **C. Bernhard**.
168. *A far-infrared ellipsometric study of the spectral gap in the c-axis conductivity of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ crystals*, Physica **C 317-318**, 276 (1999), **C. Bernhard**, D. Munzar, A. Wittlin,

- W. König, A. Golnik, C. T. Lin, M. Kläser, Th. Wolf, G. Müller-Vogt, and M. Cardona.
169. *Coexistence of ferromagnetism and superconductivity in rutheno-cuprate superconductors*, IEEE Transactions on Applied Superconductivity **9**, 1696 (1999), J. L. Tallon, **C. Bernhard**, M. Bowden, P. Gilbert, T. Stoto, and D. Pringle.
170. *Does the peak in the magnetic susceptibility determine the in-plane infrared conductivity of YBCO? A theoretical study*, Physica C **317-318**, 547 (1999), D. Munzar, **C. Bernhard**, and M. Cardona.
171. *Far-infrared ellipsometric study of the spectral gap in the c-axis conductivity of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ crystals*, Phys. Rev. **B 59**, 6631(R) (1999), **C. Bernhard**, D. Munzar, A. Wittlin, W. König, A. Golnik, C. T. Lin, M. Kläser, Th. Wolf, G. Müller-Vogt, and M. Cardona.
172. *Raman Scattering from Magnetic Excitations in the Ferromagnetic Superconductor $RuSr_2GdCu_2O_{8-\delta}$* , Phys. Stat. Sol. (b), Vol. **211**, R5 (1999), V. G. Hadjiev, A. Fainstein, P. Etchegoin, H. J. Trodahl, **C. Bernhard**, M. Cardona, and J. L. Tallon.
173. *Does the peak in the magnetic susceptibility determine the in-plane infrared conductivity of YBCO? A theoretical study*, Physica C **312**, 121 (1999), D. Munzar, **C. Bernhard**, and M. Cardona.
174. *Zero-field muon-spin-rotation study of the hole antiferromagnetism in low-carrier-density $Y_{1-x}Ca_xBa_2Cu_3O_6$* , Physica C **311**, 19 (1999), C. E. Stronach, D. R. Noakes, X. Wan, Ch. Niedermayer, **C. Bernhard**, and E. J. Ansaldo.
175. *Muon-spin-rotation study of Zn-induced magnetic moments in cuprate high- T_c superconductors*, Phys. Rev. **B 58**, 8937(R) (1998), **C. Bernhard**, Ch. Niedermayer, Th. Blasius, G. V. M. Williams, R. De Renzi, C. Bucci, and J. L. Tallon.
176. *Common Phase Diagram for Antiferromagnetism in $La_{2-x}Sr_xCuO_4$ and $Y_{1-x}Ca_xBa_2Cu_3O_6$ as Seen by Muon Spin Rotation*, Phys. Rev. Lett. **80**, 3843 (1998); Ch. Niedermayer, **C. Bernhard**, T. Blasius, A. Golnik, A. Moodenbaugh, and J. I. Budnick.
177. *Electronic c-axis Response of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ Crystals Studied by Far-Infrared Ellipsometry*, Phys. Rev. Lett. **80**, 1762 (1998), **C. Bernhard**, R. Henn, A. Wittlin, M. Kläser, G. Müller-Vogt, C. T. Lin, and M. Cardona.
178. *Far Infrared Ellipsometry using Synchrotron Radiation: the out-of plane response of $La_{2-x}Sr_xCuO_4$* , Thin Solid Films **313-314**, 643 (1998), R. Henn, **C. Bernhard**, A. Wittlin, M. Cardona, S. Uchida.
179. *Comment on "Muons Spin Relaxation Studies of Zn-Substitution Effects in High- T_c Cuprate Superconductors*, Phys. Rev. Lett. **80**, 205, (1998), **C. Bernhard**, J. L. Tallon, C. Bucci, R. De Renzi, G. Guidi, G. V. M. Williams, and Ch. Niedermayer.
180. *Zn-induced T_c Reduction in High T_c Superconductors: Scattering in the Presence of a Pseudogap*, Phys. Rev. Lett. **79**, 5294 (1997), J. L. Tallon, **C. Bernhard**, G. V. M. Williams,

and J. W. Loram.

181. *Minima of the muon depolarization rate in $Cd_{1-x}Mn_xTe$* , Phys. Rev. **B 55**, 13002 (1997), A. Golnik, A. Weidinger, Ch. Niedermayer, **C. Bernhard**, and E. Recknagel.
182. *A muon-spin rotation study of the superconducting condensate density in high temperature superconductors*, Hyperfine Interactions **105**, 139 (1997), Ch. Niedermayer, **C. Bernhard**, J. L. Tallon, G.V.M. Williams, J.I. Budnick, E.J. Ansaldo, C.E. Stronach, D.R. Noakes, C. Bucci, R. De Renzi, and G. Guidi.
183. *Study of the magnetic phase diagram of $Y_{1-x}Ca_xBa_2Cu_3O_6$* , Hyperfine Interactions **105**, 131, (1997), Ch. Niedermayer, **C. Bernhard**, T. Blasius, and A. Decker.
184. *μ SR measurement of the superconducting condensate reduction induced by Zn in underdoped, optimally doped and overdoped YBCO*, Hyperfine Interactions **105**, 89, (1997), C. Bucci, R. De Renzi, G. Guidi, **C. Bernhard**, Ch. Niedermayer, F. Licci, and J. L. Tallon.
185. *Muon spin relaxation studies of superconducting cuprates*, Superconductor Science & Technology **10**, A38, (1997), J. L. Tallon, **C. Bernhard**, and Ch. Niedermayer.
186. *Phase separation, pseudogap and impurity scattering in the HTS cuprates*, Physica **C 282-287**, 236, (1997), J. L. Tallon, G. V. M. Williams, N. E. Flower, and **C. Bernhard**.
187. *Interplanar coupling, induced superconductivity, and van Hove singularity in high- T_c cuprates*, Phys. Rev. **B 53**, 11972, (1996), J. L. Tallon, G. V. M. Williams, **C. Bernhard**, D. M. Pooke, M. P. Staines, J. D. Johnson, and R. H. Meinhold.
188. *Thermoelectric power of $Y_{1-x}Ca_xBa_2Cu_3O_{7-d}$: contributions from CuO_2 planes and CuO chains*, Phys. Rev. **B 54**, 10201 (1996), **C. Bernhard** and J.L. Tallon.
189. *Suppression of the superconducting condensate in high- T_c cuprates by Zn substitution and overdoping: evidence for an unconventional pairing state*, Phys. Rev. Lett. **77**, 2304, (1996), **C. Bernhard**, J. L. Tallon, C. Bucci, R. De Renzi, G. Guidi, G. V. M. Williams, and C. Niedermayer.
190. *A new approach to the design of high- T_c superconductors: metallised interlayers*, Journal of Low Temperature Physics **105**, 1379 (1996), J. L. Tallon, **C. Bernhard**, Ch. Niedermayer, J. Shimoyama, S. Hahakura, K. Yamaura, Z. Hiroi, M. Takano, and K. Kishio.
191. *Coexistence of superconductivity and magnetism in HTSC materials? μ SR and magneto-optical studies*, in Recent Developments in High Temperature Superconductivity' Proc. of the 1st Polish-US Conference, Eds. J. Klamut, B. W. Veal, B. M. Dabrowski, P. W. Klamut and M. Kazimierski, Springer Verlag Berlin, 1996, p. 337-49; A Golnik, **C. Bernhard**, J. I. Budnick, M. Kutrowski, Ch. Niedermayer, and T. Sziumata.
192. *Dimensionality transition of the vortex state in $Bi_2Sr_2Ca_{n-1}Cu_nO_x$* , Proc. 8th Int. Symp. Superconductivity (ISS'95), Oct.30-Nov.2, Hamamatsu, Japan, Advances in Superconductivity VIII, Springer-Verlag Tokyo 1995, D. M. Pooke, **C. Bernhard**, Y. Kotaka, J. L. Tallon, J.

Shimoyama, K. Kishio, and Ch. Niedermayer.

193. *Generic phase behavior in high- T_c cuprates: T_c variation with hole concentration in $YBa_2Cu_3O_{7-\delta}$* Phys. Rev. **B 51**, 12911 (1995), J. L. Tallon, **C. Bernhard**, H. Shaked, R. L. Hitterman, and J. D. Jorgensen.
194. *Carrier Doping and dimensional crossover of flux line system in $Bi_2Sr_2Ca_{n-1}Cu_nO_{8+\delta}$* , Proc. 7th US-Japan Workshop on High- T_c Superconductors, Oct. 1995, Tsukuba Japan, World Scientific Singapore, K. Kishio, J. Shimoyama, D. M. Pooke, J. L. Tallon, **C. Bernhard**, and Ch. Niedermayer.
195. *Magnetic penetration depth and condensate density in cuprate high- T_c superconductors determined by muon spin rotation experiments*, Phys. Rev. **B 52**, 10488 (1995), **C. Bernhard**, Ch. Niedermayer, U. Binniger, A. Hofer, C. Wenger, J. L. Tallon, G. V. M. Williams, E. J. Ansaldo, J. I. Budnick, C. E. Stronach, D. R. Noakes, and M. A. Blankson-Mills.
196. *Anisotropy and Dimensional Cross-over of the Vortex State in $Bi_2Sr_2CaCu_2O_{8+\delta}$ Crystals*, Phys. Rev. **B 52**, 7050(R), (1995), **C. Bernhard**, C. Wenger, Ch. Niedermayer, D. M. Pooke, J. L. Tallon, Y. Kotaka, K. Kishio, D. R. Noakes, C. E. Stronach, T. Sembiring, and E. J. Ansaldo.
197. *Muon spin rotation study of antiferromagnetic order in hydrogenated $YBa_2Cu_4O_8$ - Evidence for a local structural change in the vicinity of T_c* , Physica **C 242**, 39 (1995), H. Glückler, Ch. Niedermayer, **C. Bernhard**, U. Binniger, E. Recknagel, J. L. Tallon, and J. I. Budnick.
198. *In-Plane Anisotropy of the Penetration Depth Due to Superconductivity in the Cu-O Chains in $YBa_2Cu_3O_{7-\delta}$ $YBa_2Cu_4O_{15-\delta}$ and $YBa_2Cu_4O_8$* , Phys. Rev. Lett. **74**, 1005 (1995), J. L. Tallon, **C. Bernhard**, U. Binniger, A. Hofer, G. V. M. Williams, E. J. Ansaldo, and Ch. Niedermayer.
199. *Reorientational Dynamics of C_{60} in the solid state. An avoided level-crossing muon spin resonance study*, Chemical Physics **192**, 231 (1995), E. Roduner, K. Prassides, R.M. Macrae, I. M. Thomas, Ch. Niedermayer, U. Binniger, **C. Bernhard**, A. Hofer, and I. D. Reid.
200. *Rotational dynamics of solid C_{70} investigated by the muon-spin-rotation technique*, Phys. Rev. **B 51**, 14867 (1995), U. Binniger, **C. Bernhard**, Ch. Niedermayer, E. Recknagel, J. Erxmeyer, and A. Weidinger.
201. *Comment on Transport at a van Hove singularity in cuprate superconductors*, Phys. Rev. Lett. **75**, 4552 (1995), J. L. Tallon and **C. Bernhard**.
202. *Giant enhancement in HTS properties by induced superconductivity*, Program Ext. Abstr. - Int. Workshop Supercond. (1995), 471-472, Publisher: International Superconductivity Technology Center, Tokyo, Japan; J. L. Tallon, **C. Bernhard**, G. V. M. Williams.
203. *Doping dependence of the magnetic penetration depth in $(Yb_{1-x}Ca_x)(Ba_{1.6}Sr_{0.4})Cu_3O_7$*

- δ studied by muon spin rotation, *Physica C* **226**, 250 (1994), **C. Bernhard**, Ch. Niedermayer, U. Binninger, A. Hofer, J. L. Tallon, G. V. M. Williams, E. J. Ansaldo, and J. I. Budnick.
204. *Muon Spin Rotation Studies of Doping in High- T_c Superconductors*, *J. Mag. Mat.* **140-144**, 1287 (1994), Ch. Niedermayer, **C. Bernhard**, and J. I. Budnick.
205. *Energy and length scales in the superconducting phase diagram for HTSC cuprates*, *Physica C* **235-240**, 1821 (1994), J. L. Tallon, G. V. M. Williams, M. P. Staines, and **C. Bernhard**.
206. *Magnetic Penetration Depth of $Tl_2Ba_2CuO_{6+\delta}$: $T_c \sim \sigma_0$ in the overdoped region*, *Hyperfine Interactions* **86**, 585 (1994), Ch. Niedermayer, **C. Bernhard**, U. Binninger, H. Glückler, J. L. Tallon, E. J. Ansaldo, and J. I. Budnick.
207. *Magnetic Penetration Depth of $Tl_2Ba_2CuO_{6+\delta}$: $T_c \sim \sigma_0$ in the overdoped region*, *Journal of Superconductivity* **7**, 165 (1994), Ch. Niedermayer, **C. Bernhard**, U. Binninger, H. Glückler, J. L. Tallon, E. J. Ansaldo, and J. I. Budnick.
208. *Reorientational Dynamics of Solid C_{70} Probed by Positive Muons*, *J. Phys. Chem.* **98**, 12133 (1994), R. M. Macrae, K. Prassides, I. M. Thomas, E. Roduner, Ch. Niedermayer, U. Binninger, **C. Bernhard**, A. Hofer, I. D. Reid.
209. *Muon spin rotation in overdoped $Tl_2Ba_2CuO_{6+\delta}$ Reply to comment*, *Phys. Rev. Lett.* **72**, 2502 (1994), Ch. Niedermayer, **C. Bernhard**, U. Binninger, J. L. Tallon, E. J. Ansaldo, J. I. Budnick.
210. *Application of μ SR to the study of the dynamics of C_{70}* , *Prog. Fullerene Res., Int. Winter Sch. Electron. Prop. Novel Matter.*, p. 207-10, (1994), Ed. H. Kuzmany, World Sci., Singapore; U. Binninger, E. Roduner, I. D. Reid, **C. Bernhard**, A. Hofer, E. Recknagel, J. Erxmeyer, and Ch. Niedermayer.
211. *Simultaneous observation of muonium and multiple free radicals in muon-implanted C_{70}* , *Phys. Rev. B* **47**, 10923, (1993), Ch. Niedermayer, I. D. Reid, E. Roduner, E. J. Ansaldo, **C. Bernhard**, U. Binninger, H. Glückler, E. Recknagel, J. I. Budnick, and A. Weidinger.
212. *Muon Spin Rotation Study of the Correlation between T_c and n_s/m_{ab}^* in overdoped $Tl_2Ba_2CuO_{6+\delta}$* *Phys. Rev. Lett.* **71**, 1764 (1993), Ch. Niedermayer, **C. Bernhard**, U. Binninger, H. Glückler, J. L. Tallon, E. J. Ansaldo, and J. I. Budnick.