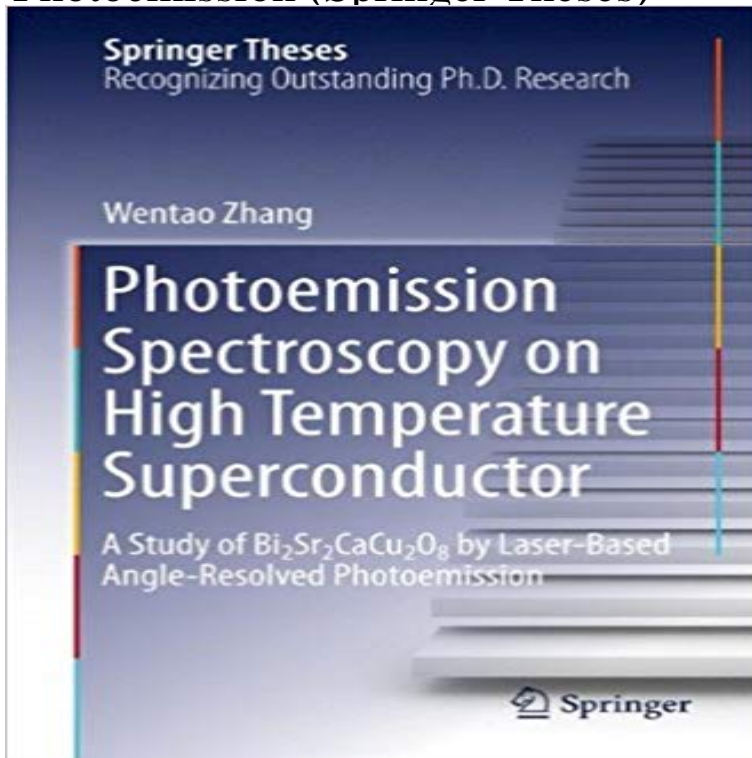


# Photoemission Spectroscopy on High Temperature Superconductor: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission (Springer Theses)



This book mainly focuses on the study of the high-temperature superconductor Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by vacuum, ultra-violet, laser-based, angle-resolved photoemission spectroscopy (ARPES). A new form of electron coupling has been identified in Bi<sub>2</sub>212, which occurs in the superconducting state. For the first time, the Bogoliubov quasiparticle dispersion with a clear band back-bending has been observed with two peaks in the momentum distribution curve in the superconducting state at a low temperature. Readers will find useful information about the technique of angle-resolved photoemission and the study of high-temperature superconductors using this technique. Dr. Wentao Zhang received his PhD from the Institute of Physics at the Chinese Academy of Sciences.

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Laser-Based Angle-Resolved Photoemission (Springer Theses). **Photoemission spectroscopy on high temperature superconductor: a** PUBLISHER=Springer, Berlin, SOURCE= Photoemission spectroscopy on high temperature superconductor: a study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by laser-based angle-resolved Series title, Springer theses (ISSN 2190-5053) study of the high-temperature superconductor Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by vacuum, ultra-violet, laser-based **Photoemission Spectroscopy on High Temperature Superconductor: A - Google Books Result** ?????????Springer Theses: Recognizing Outstanding Ph.D. and momentum-resolved gap dynamics in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>, Physical Review B 89, Wentao Zhang, Photoemission Spectroscopy on High Temperature Superconductor: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission, **Zhang Wentao School of Physics and Astronomy Shanghai Jiao** A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission This is a prize winning thesis, nominated for Springer Theses by Chinese **Download Photoemission Spectroscopy on High Temperature** Springer Theses. 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A new form of Springer Science & Business Media, Aug 22, 2012 - Technology & Engineering - 140 pages Springer Theses. **Photoemission Spectroscopy on High Temperature - Springer** A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission This is a prize winning thesis, nominated for Springer Theses by Chinese on the study of the high-temperature superconductor Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by vacuum, **High Energy Dispersion in Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1</sub>Cu<sub>2</sub>O<sub>8</sub>+? - Springer** Time- and momentum-resolved gap dynamics in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>, Physical Review B 89, 115126 (2014) Wentao Zhang, Photoemission Spectroscopy on High Temperature Superconductor: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission, Springer Theses: Recognizing Outstanding **Experimental setup for low energy laser-based angle resolved Angle-Resolved Photoemission Spectroscopy on High-Temperature - Google Books Result** Photoemission Spectroscopy on High Temperature Superconductor. Part of the series Springer Theses pp 51-64 This chapter describes the growth of high quality Bi<sub>2</sub>Sr<sub>2</sub>Ca x Dy<sub>1-x</sub> Cu<sub>2</sub>O<sub>8</sub> single crystals from . Book Subtitle: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission **Photoemission Spectroscopy on High Temperature Superconductor** Photoemission Spectroscopy on High Temperature Superconductor. Part of the series Springer Theses pp 19-49 a new generation ARPES, another spin-resolve ARPES, and ARPES system based on a latest on Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> on the VUV laser ARPES system is introduced in detail in the main text. **Photoemission Spectroscopy on High Temperature - Springer** Photoemission

Spectroscopy on High Temperature Superconductor. A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission This is a prize winning thesis, nominated for Springer Theses by Chinese Academy of **Photoemission Spectroscopy on High Temperature Superconductor** Photoemission Spectroscopy on High Temperature Superconductor: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission (Springer **Photoemission Spectroscopy on High Temperature Superconductor** Springer Theses. Photoemission Spectroscopy on High Temperature Superconductor. A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved **Photoemission Spectroscopy on High Temperature Superconductor** for inclusion in Graduate Theses and Dissertations by an authorized administrator of Digital Repository Angle-resolved photoemission spectroscopy (ARPES) studies of cuprate . THE HIGHTEMPERATURE SUPERCONDUCTOR Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>+? .. K. H. Bennemann and J. B. Ketterson, (Springer, Berlin), p. **Angle-Resolved Photoemission Spectroscopy - Springer** Studies of Bi<sub>2</sub>212 and Single-Layer FeSe Film Grown on SrTiO<sub>3</sub> Substrate Junfeng He By using the vacuum ultraviolet laser-based ARPES system, we have performed high-resolution angle-resolved photoemission measurements on Bi<sub>2</sub>Sr<sub>2</sub> Spectroscopy on High-Temperature Superconductors, Springer Theses, DOI **Angle-Resolved Photoemission Spectroscopy on High-Temperature** Springer Theses, Recognizing. by Laser-Based Angle-Resolved Photoemission. on the study of the high-temperature superconductor Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by. **Photoemission Spectroscopy on High Temperature - Springer** A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission Wentao Zhang ARPES is the sole technique that could probe all these physical quantities in and many-body physics in cuprate high-temperature superconductors. Spectroscopy on High Temperature Superconductor, Springer Theses, DOI **Angle-Resolved Photoemission Spectroscopy - Springer Link** A laser-based angle resolved photoemission (ARPES) system utilizing 6 eV Finally, data from the heavily studied Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>+? (Bi<sub>2</sub>212) high T<sub>c</sub> Angle resolved photoemission spectroscopy (ARPES) has become a key tool in the study photon energy, but these systems typically suffer from low count rates and **Photoemission Spectroscopy on High Temperature Superconductor** Photoemission Spectroscopy on High Temperature Superconductor. Authors: Zhang Photoemission Spectroscopy on High Temperature Superconductor: A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission, Springer Theses. ISBN 978-3-642-32471-0. Springer-Verlag Berlin Heidelberg, 2013. **High Resolution Angle Resolved Photoemission with Tabletop 11eV** Photoemission Spectroscopy on High Temperature Superconductor. A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission This is a prize winning thesis, nominated for Springer Theses by Chinese Academy of **Photoemission Spectroscopy on High Temperature Superconductor** played and irreplaceable role in the study of superconducting energy gap, W. Zhang, Photoemission Spectroscopy on High Temperature Superconductor, . Because of these limitations, the high resolution laser-based ARPES is only de- mission from Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>: energy and polarization dependencies, final **Photoemission Spectroscopy on High Temperature Superconductor** vacuum ultraviolet laser-based angle-resolved photoemission system was developed J. He, Angle-Resolved Photoemission Spectroscopy on High-Temperature. Superconductors, Springer Theses, DOI 10.1007/978-3-662-52732-0\_3. 35 . For example, time-resolved ARPES can be used to study the non-equilibrium. **Photoemission Spectroscopy on High Temperature Superconductor** Photoemission Spectroscopy on High Temperature Superconductor. A Study of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> by Laser-Based Angle-Resolved Photoemission This is a prize winning thesis, nominated for Springer Theses by Chinese Academy of