



# 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)

Wentao Zhang

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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 Bi2212, 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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