

Photoemission Spectroscopy On High Temperature Superconductor

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This book mainly focuses on the study of the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ by vacuum, ultra-violet, laser-based, angle-resolved photoemission spectroscopy (ARPES). A new form of electron coupling has been identified in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$, 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. EAN/ISBN : 9783642324727 Publisher(s): Springer, Berlin Format: ePub/PDF Author(s): Zhang, Wentao

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