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ARPES line shapes of two leg ladder compounds $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ GEY-HONG GWEON, Department of Physics, UC Santa Cruz, TAKAO SASAGAWA, MSL, Tokyo Institute of Technology, BRANDON MCGUIRE, JIANQIAO MENG, MATTHEW BRUNNER, JACOB STANLEY, JAMES HINTON, Department of Physics, UC Santa Cruz — Two leg ladder compounds, $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$, are quasi-one-dimensional cuprate materials, and provide a reference for considering many interesting and controversial general issues such as non-Fermi liquid, Fermi surface reconstruction, and charge order on a more solid ground. Here we discuss how the line shapes observed for two leg ladder compounds in angle resolved photo- electron spectroscopy (ARPES) may shed light on continuing issues in physics of quasi-two-dimensional cuprates.

Gey-Hong Gweon

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