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Spectroscopic Imaging Scanning Tunneling Microscopy Studies of Ruthenates M. WANG, JINHO LEE, A. SCHMIDT, Y. KOHSAKA, LASSP, Physics Department, Cornell University, U.S.A., S.A. GRIGERA, School of Physics and Astronomy, University of St. Andrews, U.K., R.S. PERRY, Department of Physics, Kyoto University, Japan, A.P. MACKENZIE, School of Physics and Astronomy, University of St. Andrews, U.K., J.C. DAVIS, LASSP, Physics Department, Cornell University, U.S.A. — We report atomic resolution spectroscopic imaging studies of Ruthenates, including $Sr_3Ru_2O_7$ and $Ca_3Ru_2O_7$. We will discuss the comparison between ARPES and SI-STM studies of these materials.

Miao Wang
LASSP, Physics Department, Cornell University

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