

Abstract Submitted
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Three-Dimensional Band Structure of $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ ¹ F. WANG, J.W. ALLEN, U. of Michigan, J.D. DENLINGER, Lawrence Berkeley National Lab, X.N. LIN, GANG CAO, Dept. of Physics, U. of Kentucky — The electronic structure and Fermi Surface (FS) of the triple-layer ruthenate $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ is probed with angle resolved photoemission. Angle-dependent FS maps show distinctly different sized FS orbits as compared to the measured single- and double-layer ruthenate FS topologies. In addition, photon-dependent FS maps reveal a distinct k_{\perp} variation with a periodicity corresponding to the inter-layer spacing of the triple-layer stack, indicating a three-dimensionality of the band structure. Comparison of the FS topology is made to available band structure calculations.

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