

Abstract Submitted
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Doping dependent correlation effects in $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$ GREGORY AFFELDT, Univ of California - Berkeley, TOM HOGAN, University of California, Santa Barbara, JONATHAN DENLINGER, Lawrence Berkeley National Lab, STEPHEN WILSON, University of California, Santa Barbara, ALESSANDRA LANZARA, Univ of California - Berkeley — The layered perovskite iridate $\text{Sr}_3\text{Ir}_2\text{O}_7$ exhibits a spin-orbit Mott insulating state due to both strong spin-orbit coupling and electron-electron correlations, which gives way to a metallic state upon carrier doping. We will show ARPES results illustrating the changing signatures of electronic correlations with doping in $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$, and discuss connections to other doped Mott insulators.

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