

Evidences of orbital-selective correlations in the measured gap structure in FeSe

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A recent report of Bogoliubov quasiparticle interference measurements on FeSe single crystals traces the angular dependence and sign of the superconducting gaps with unprecedented precision. Fitting these gap structures with existing pairing theories fails, the missing piece being strongly orbital-selective quasiparticle weights. These have been predicted in the recent years as a general feature of Hund's correlated metals.

Sprau et al., *Discovery of Orbital-Selective Cooper Pairing in FeSe*, ArXiv:1611.02134