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Pairing and Fermiology in iron-chalcogenide superconductors

DUNG-HAI LEE, Dept. Physics, University of California, Berkeley

“Stripe”-type magnetic fluctuations has been postulated as the trigger of Cooper pairing in iron-based superconductors. In iron pnictides the matching of the peak magnetic fluctuations wavevector and the Fermiology lands support to the above idea. However recent ARPES results on high T_c $A_x\text{Fe}_{2-y}\text{Se}_2$ and $\text{FeSe}/\text{SrTiO}_3$ and neutron results on $A_x\text{Fe}_{2-y}\text{Se}_2$ pose challenges to the above picture. In this talk we will take a fresh new look at the purported pairing mechanism of iron-based superconductors.