Pairing and Fermiology in iron-chalcogenide superconductors
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“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 Tc A_xFe_{2-y}Se_2 and FeSe/SrTiO_3 and neutron results on A_xFe_{2-y}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.