

s_{\pm} Pairing Symmetry and Pairing Mechanism in Fe-based Superconductors

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I will briefly explain the basics of the spin-fluctuation induced superconductivity, and will discuss the Fe-based superconductors (FeBSC) in comparison with the cuprates and MgB₂. I will emphasize the interplay between the Fermi surface geometry and the structure of the spin fluctuation spectrum in the momentum space, and explain why it was so easy to come up with the basic prediction of the s_{\pm} superconductivity, and why physically very different models appear to lead to the same pairing symmetry.