

Iron-based superconductors

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The discovery of iron-based superconductors in 2008 has attracted worldwide attention in the unconventional high-temperature superconductivity research. Among various classes of Fe-based superconductors, the ternary “EuFe₂As₂” system is a unique representative, due to the two magnetic sublattices and the strong coupling between spin-, lattice- and charge degrees of freedom. Superconductivity can be achieved in this system by chemical substitution or applying external pressure. In this talk, I will talk about how the superconductivity and magnetism can be tuned by means of chemical doping or physical compression and how they are correlated, by presenting some recent progresses on iron-based superconductors from Quantum Phenomena Group at MLZ.

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