

Superconducting and Normal States in Iron Chalcogenides

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Iron based superconductors have been attracting considerable attention since their discovery in 2008 [1]. In particular, alkali-doped iron selenide materials have recently emerged to the frontier of research due to critical temperatures (T_c 's) that exceed T_c 's in iron arsenides [2,3]. In this talk I will discuss the insulating states caused by high magnetic fields [4-5] or chemical substitutions. The discussion will be centered on the peculiarities of the crystal structure [6-10], phase separation and on comparison with binary iron selenide superconductors [11].

References:

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