

Magnetic and transport properties of FeT(As, Se and Te)

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The recently discovered Fe-based HTS $RO_{1-x}F_xFeAs$ display a variety of structural, magnetic, transport transitions and charge ordering effect over a wide temperature range $\sim 100-200$ K. In this talk we present magnetic and transport measurements revealing that the bazaar behavior also extends to the precursor materials used in preparing these HTcS; namely: FeAs, FeSe, FeTe, SmAs and RhAs.