

Abstract Submitted
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The Pressure Effects on $\text{SmFeAsO}_{0.85}$ and $\text{PrFe}_{0.925}\text{Co}_{0.075}\text{AsO}$ Superconductors X.L. DONG, W. LU, J. YANG, W. YI, Z.C. LI, C. ZHANG, Z.A. REN, G.C. CHE, L.L. SUN, F. ZHOU, X.J. ZHOU, Z.X. ZHAO, National Laboratory for Superconductivity, Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, CAS, Beijing 100190 — We have measured magnetic susceptibility of iron pnictide superconductors $\text{SmFeAsO}_{0.85}$ and $\text{PrFe}_{0.925}\text{Co}_{0.075}\text{AsO}$ under hydrostatic pressure up to 1.15 GPa. Our results indicate that the pressure dependences of T_C and superfluid density in both systems are positively correlated which suggests that these quaternary iron-based superconductors are not conventional BCS ones.

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