NON-FERMI LIQUID BEHAVIOR IN CeRhSn

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9.7 cm

Electrical resistivity ρ, magnetic susceptibility χ, specific heat C, X-ray photoelectron spectroscopy (XPS), and the calculations of the electronic structure were made on the compound CeRhSn. The data demonstrate the scaling behavior of the non-Fermi liquid; $C(T)/T \propto \chi \propto T^{-1+\lambda}$, and $\Delta\rho \propto T$. We argue that the non-Fermi liquid behavior observed in CeRhSn can be due to the existance of a Griffith's phase close to a quantum critical point.

13.4 cm

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