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Low Temperature Electron Spin Resonance of the Kondo Ion in a Heavy Fermion Metal: YbRh₂Si₂

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Abstract

The electron spin resonance (ESR) study on single crystals of the heavy fermion metal YbRh₂Si₂ was presented. The study showed non-Fermi liquid behavior related to a close antiferromagnetic quantum critical point. It was found that the spin dynamics as well as the static magnetic properties of the Yb³⁺ spins were consistent with the results of nuclear magnetic resonance and magnetic susceptibility.
