

Magnetic Resonance in Solids, 2015, vol.17, N1

Magnetic properties and spin kinetics in Kondo lattices

Belov S., Kutuzov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Kazan Federal University (KFU). We present a theoretical model to describe unusual properties of Kondo lattices. The influence of the Kondo effect on the static magnetic susceptibility and electron spin resonance (ESR) parameters is studied in a simple molecular field approximation together with a scaling perturbative approach. Theoretical expressions well agree with the ESR and static magnetic susceptibility experimental data.

Keywords

ESR, Kondo effect, Kondo lattice, Static magnetic susceptibility