

Static magnetic susceptibility of the systems with anisotropic kondo interaction

Belov S., Kutuzov A.

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

Abstract

© Springer-Verlag Wien 2014. We theoretically investigated the static magnetic susceptibility in the heavy fermion compounds YbRh_2Si_2 and YbIr_2Si_2 . The molecular field approximation together with the renormalization of the Kondo interaction by the highenergy conduction electron excitations results in the Curie-Weiss law and Van Vleck susceptibility with temperature-dependent Curie and Weiss parameters.

<http://dx.doi.org/10.1007/s00723-014-0567-x>
