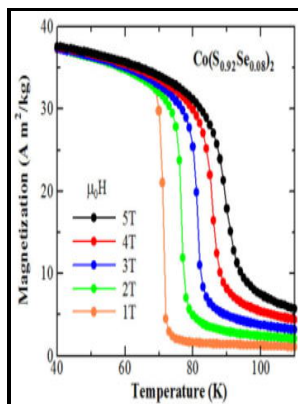


Theory of itinerant electron magnetism

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Previous theories were mainly restricted to the Curie-Weiss law temperature dependence of magnetic susceptibilities. Although nearly the same equation is derived as in the SCR theory, there is a substantial difference between them, that leads to the interesting consequences that can be checked experimentally. As shown above explicitly, it consists of the sum of the thermal and the quantum zero-point fluctuation amplitudes.

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According to the preceding subsection, let us assume the free energy expansion in powers of M , i. With the use of the Sommerfeld expansion, the magnetic equation of states can be expanded as follows.

[PDF] A Modern Model Description of Magnetism

Later we will show that the following relation holds for weak itinerant electron ferromagnets. On the other hand, the zero-point amplitude only has

the implicit dependence through y .

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This analysis yields insights into the nature of the semiphenomenological isotropic Stoner parameter as it enters a proper multiple-scattering treatment of the electron states in perfect crystals and disordered metals. From the thermodynamic relation, the magnetic isotherm, the relation between the magnetization M and the external magnetic field H , is derived as follows.

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