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Einladung zum Seminar

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„Magnetic behavior in Rare Earth- Antimony systems“

LaCrSb₃ is one of the interesting rare earth antimonide system where Cr shows dual character. There are two coexisting magnetic interactions below 100 K along two of the crystallographic directions. The anisotropy of crystal structure plays an important role here providing different degrees of hybridization of Sb 5p orbitals with Cr 3d orbitals. With study of rest of the members of the RCrSb₃ and RVsSb₃ series, aim was to understand the effect of adding f moment from the rare earth ion (R), on this unusual magnetism of Cr, which in turn enriches our knowledge of d-f magnetic interplay. The magnetism in these systems was studied with susceptibility $\chi(T)$, isothermal magnetization $M(H)$, resistivity $\rho(T)$, specific heat and neutron diffraction experiments on the single crystalline samples. In the talk I will discuss the results from these measurements including the procedure adopted for single crystal growth of RT(Cr, V)Sb₃ samples..

Host: S. Bühler-Paschen

Freitag, 08. Jänner 2010, 10:00 Uhr
Seminarraum 138B, 7. OG, Turm C (rot)
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