

Seminář oddělení magnetik a supravodičů

Fyzikální ústav Akademie věd České republiky, v. v. i.

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Thermodynamics of magnetically ordered and disordered systems

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In this talk I will present the theoretical results regarding thermodynamics of three classes of magnetic systems: insulating and itinerant (especially so-called heavy-fermion compounds) magnetically ordered systems as well as insulating magnets with disorder. The influence of disorder on the properties of magnets will be discussed in details. The theoretical results will be extensively compared with experiment in magnets, diluted magnetic semiconductors and multiferroics. Recent results obtained by team of experimentalists and theorists in $\text{PbFe}_{1/2}\text{Sb}_{1/2}\text{O}_3$ multiferroic will also be discussed.