

Laboratoire Léon Brillouin



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Spin fluctuations and neutron scattering in YbRh_2Si_2

Mardi 24 mars 2009 à 14h 30

Salle de conférence 15 – Bâtiment 563

The properties of quantum critical points is a topic of current interest and research. However, many systems which are believed to display quantum critical phenomena also contain significant structural disorder making the underlying properties difficult to disentangle. YbRh_2Si_2 is an ideal example of a metallic stoichiometric system located near a magnetic field induced quantum critical point. This material shows strong non-Fermi liquid behavior and a significant change in the Hall number in the vicinity of the critical point. This talk will outline many of the underlying magnetic properties of YbRh_2Si_2 found through the use of neutron inelastic scattering. Studies as a function of both temperature and magnetic field will be compared with band structure calculations and other metallic magnetic systems.

***Formalités d'entrée :** Contacter le Secrétariat pour votre autorisation d'entrer sur le Centre de Saclay :*

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