

CEA - Saclay 91191 Gif-sur-yvette Cedex
Service de Physique de l'Etat Condensé
SÉMINAIRE

Mercredi 23 septembre 11h15

Orme des Merisiers SPEC Salle Itzykson, Bât.774

Itinerant magnetism on the optical lattice and coherent
enhancement of magnetic resonance

Seiji Miyashita (Tokyo Univ.)

We study an adiabatic transition between the non-magnetic Mott state and the ferromagnetic Nagaoka state in the Hubbard model when a particle is removed from the system. We also study dynamical aspects of this transition, and discuss enhancement of the magnetic resonance as a kind of super-radiance in a magnetic system. We also study properties of the ground state of itinerant magnetic systems with particles with large spins ($S > 1/2$), which could be realized in laser-cooled optical lattices.

PS : Un café sera servi à 11h.

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