



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



Mercredi 17 septembre 2014 à 11h15

Orme des Merisiers SPEC, Salle Itzykson, Bât.774

Hybrid quantum optomechanics : a single spin coupled to a nano-oscillator

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Interfacing a mechanical resonator with a purely quantum object is a promising route toward the generation of macroscopic non-classical states. We consider here an hybrid system composed of a single NV spin qubit coupled to a nano-resonator. The theoretical framework of the coupling mechanism will be detailed and the first experimental signatures of the coupled dynamics will be presented.

A coffee break will be served at 11h00. The seminar will be given in English.