

Centre de Nanosciences et de Nanotechnologies

Séminaire

Vendredi 25 mai

14 heures Salle Richard Planel du C2N site Marcoussis

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"Optical Nanofibers; experiments in optomechanics and quantum optics."



Abstract:

Nanofibers produced by tapering an ordinary single mode optical fiber to diameters of half a micron are interesting optical objects. We have studied the Spin-optomechanical coupling between light and a nanofiber torsional mode with nanofibers excited with circularly polarized light in the HE11 mode. Our recent experiments with cold trapped Rb atoms around the nanofiber include the modification of the polarization of the light by the birefringence of the atoms, revealing their dynamics in the trap.

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