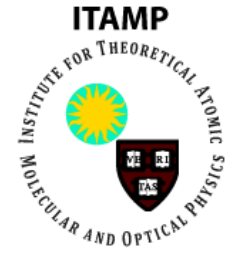




HARVARD Quantum Optics Center



Joint Quantum Sciences Seminar

**Wednesday | May 7 | 4:00 pm |
Jefferson 250**

Alain Aspect

Institut d'Optique, Palaiseau

"Weak and Strong Localizations of Ultra-cold Atoms: Breaking the Time Reversal Symmetry"

Anderson localization is one of the difficult problems of condensed matter physics that can be simulated with ultra-cold atoms. After recalling some results about 1D and 3D Anderson localization and Coherent Back Scattering (the effect responsible for weak localization), I will describe a new experiment showing how breaking time reversal symmetry affects localization.

**Nathalie de Leon, Postdoctoral Fellow, Lukin Group
"Quantum Optics in the Solid State with Diamond
Nanophotonics"**

**Postdoctoral Presentation will begin at 4:00 PM
Refreshments will be served from 4:10-4:30 PM
Guest Presentation will begin at 4:30 PM**