



*Dipartimento di Fisica
"M. Merlin"*



AVVISO DI SEMINARIO

Giovedì 28 marzo 2019, alle ore 16:00
in Aula Multimediale

il Prof. Robin Kaiser (CNRS e Université de Nice
Sophia-Antipolis) terrà un seminario dal titolo

Coherent Light scattering by cold atoms: from Anderson to Dicke and back

The quest for Anderson localization of light is at the center of many experimental and theoretical activities. Cold atoms have emerged as interesting quantum systems to study coherent transport properties of light. Initial experiments have established that dilute samples with large optical thickness allow studying weak localization of light.

The goal of our research is to study coherent transport of photons in cold atomic samples. One important aspect is the quest of Anderson localization of light with cold atoms and its relation to Dicke super- or subradiance.

In this lecture I will review experimental and theoretical state of the art on the possibility of Anderson localization of light by cold atoms.