



Physikalisches Kolloquium
Einladung

Physics Colloquium
Invitation

Monday, 13 May 2019

Lecture Hall N24/H13, 16:15

Coffee and cookies will be served in front of the lecture hall from 16:00

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

Prof. Robin Kaiser

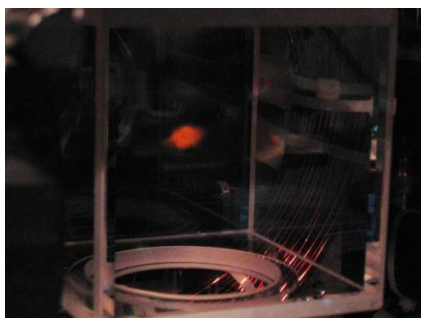
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The quest for Anderson localization of light is at the centre of many experimental and theoretical activities. Cold atoms have emerged as interesting quantum system to study coherent transport properties of light. Initial experiments have established 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 colloquium, I will review the experimental and theoretical state of the art on the possibility of Anderson localization of light by cold atoms.



Host: PD Dr. M. Efremov, Prof. W. Schleich, Institute of Quantum Physics

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