



## QUANTUM OPTICS SEMINAR

- Title:** Disorder in ultracold atomic samples in the strongly correlated regime
- Speaker:** Dr. Anna Sanpera, Institute of Theoretical Physics. Hannover University
- Time:** Friday, November 19, 2004, 11:15-12:00
- Place:** 520-333

**Abstract:**

The physics of ultracold atomic samples offers the possibility to explore phenomena that are often extremely elusive in other areas of physics. The reason behind these advantages as compared to, e.g., condensed matter, lies in the high degree of control and tunability that has been achieved in the experiments to engineer and manipulate the quantum state of ultracold atomic samples. I would like here to discuss and present our recent results concerning Bose-Fermi mixtures in optical lattice, in particular in the presence of disorder.

Klaus Mølmer