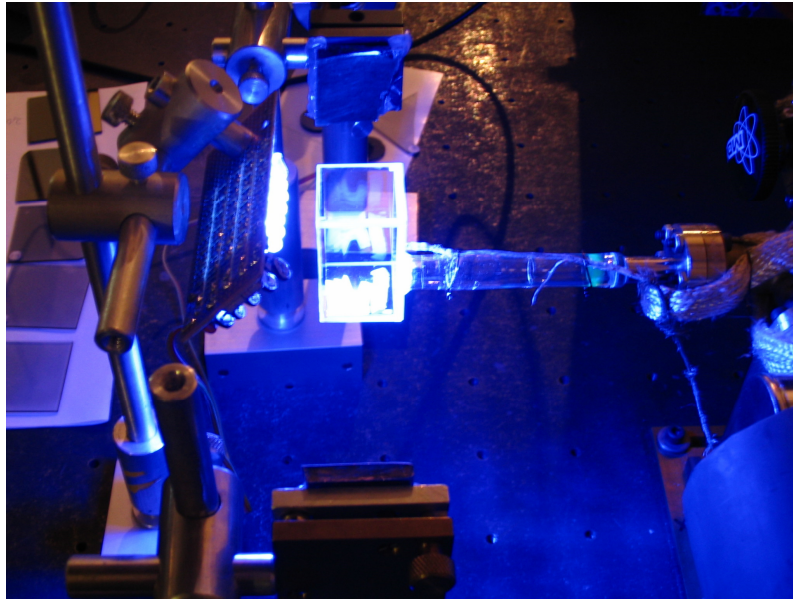


AMO Seminar



Friday, October 3, 2008

2:00 pm

Physics conference room (Small Hall 123)

Zeeman coherence in the ground state of atomic Rb: effects on light propagation, storage and fluctuations

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I review some effects on light-atom interaction arising from quantum coherence between Zeeman sublevels of alkaline atoms ground state and present some spectroscopical applications. I discuss the use of ground state coherence for light storage experiments in the non-adiabatic (sudden-switch) limit and comment on the experimental and theoretical study of the noise properties of light fields resonantly interacting with the ground state coherence.