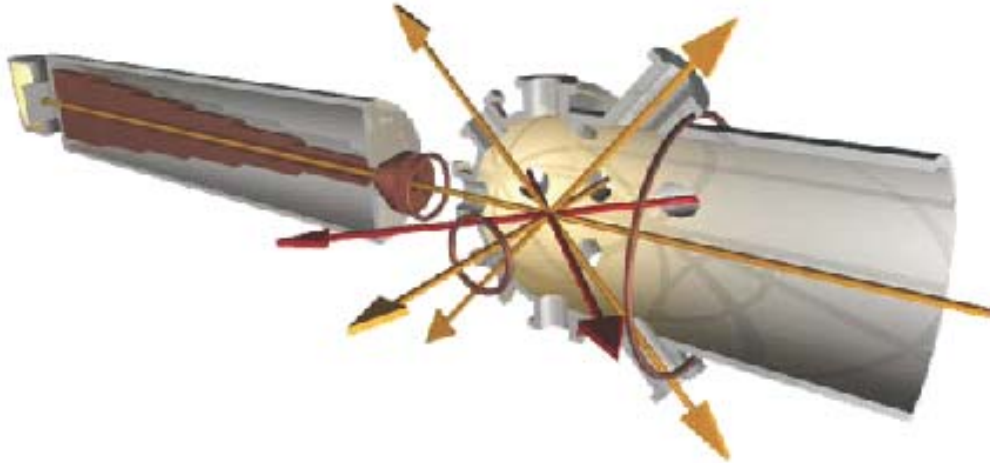


# AMO Seminar



*Friday, February 16, 2007  
2:00 pm*

*Physics conference room (Small Hall 123)*

## **Spin dynamics in a sodium condensate**

**Dr. Eduardo Gomez**

*NIST Gaithersburg, Laser Cooling and Trapping Group*

We study the spin dynamics in a sodium condensate. The ground state of sodium is a spin-1 antiferromagnet. We measure the phase space of the system as well as its response when we take it out of equilibrium. The dependence on the magnetic field shows a critical point separating the regions dominated by the mean field interaction and magnetic field respectively.