

SPECIAL AMO PHYSICS SEMINAR

“Trapping Neutral Mercury - Status, Challenges and Prospects”

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ABSTRACT

Trapping of neutral atoms has evolved into a very active research field combining aspects of quantum optics, atomic and molecular physics as well as solid state physics. During this talk we will discuss our experiment to trap neutral mercury in a magneto-optical trap. Specifically, we will focus on the status and the features of neutral mercury as a trapping species. Of particular interest are ultra-stable clocks and the formation of ultra-cold dimers by photo-association.

Monday, December 7, 2009

4:00 p.m.

578 MPHY

**Texas A&M University
Institute for Quantum Science & Engineering**

(coffee and cookies to be served at 3:45 p.m.)