

Joint Quantum Institute Seminar
February 15, 2008 at 10:30 at
NIST
Lecture room D, Administration Building 101

Christoph Simon

“Quantum optics in quantum information - from
fundamental tests to quantum repeaters”

University of Geneva

Experimental approaches to implementing ideas from quantum information science focus on developing well-understood physical systems that have only a few quantum bits. I will discuss potential applications of these small quantum systems, ranging from high-resolution magnetic field sensing to generating entangled pairs at long distances to large-scale quantum information processing. By relying upon proven technologies, we can take full advantage of the tremendous experimental advances in preparing, controlling, and measuring isolated mesoscopic and atomic systems made over the past decade.

Host NIST: Eite Tiesinga

Host UMD:Chris Monroe

If you plan to attend contact Mary Talbot at NIST mary.talbot@nist.gov