Speaker: Richard Slusher, Georgia Tech

Date: Wednesday, October 10, 2007

Time: 11:30 am – 2:00 pm

Title: "Trapped Ion Entangled Quantum Systems"

Abstract: Trapped ion arrays offer one of the best quantum systems for studying large entangled systems, quantum simulation, quantum computing and quantum repeaters. A review of quantum processing with trapped ions will be followed by recent results for trapping ions in arrays that can be scaled to levels of near one hundred ions. The vision is to study quantum systems beyond the level that can be simulated by classical numerical techniques.

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