



QUANTOP Center Meeting

Time: October 21, 2004, 11:00-?

Place: 525-323 only until 15:00 and again 16:00-17:00

Coffee/tea at 10:40

Eugene Polzik, *Introductory note.*

Progress reports

Trapped ion projects

Michael Drewsen, *Status of the Ion Trap Group Projects* 10 min

Solvejg Jørgensen, *Photo-dissociation of cold MgH⁺ ions* 20 min

Atomic ensembles

Brian Julsgaard, *Quantum memory experiment*, 15 min

Vivi Petersen, *Magnetometry with entangled atomic samples* 15 min

Eugene Polzik, *Quantum information protocols with atomic ensembles, where do we stand?* 15 min

Kristian Rymann, *EIT with a standing wave pump field* 10-15 min

Lunch at 12:30 in the cantina at the Department of Mathematics

Quantum communication

Anders Sørensen, *Overview of activities* 10 min

Anders Sørensen, *Fault-tolerant Quantum Communication Based on Solid-state Photon Emitters* 20 min

Ultra-cold gases

Michael Budde, *Status of the Aarhus Quantum gas experiment* 15 min

Matt Mackie, *Molecule Formation in a Feshbach-Resonant Fermi Gas of Atoms* 10-15 min

Karen Marie Hilligsøe, *Bose-Einstein condensates undergoing phasematched four wave mixing in a periodic potential* 10 min

Coffee/tea at 14:15

Games for grown-up experimentalists

Henrik Kjær Andersen, *Control and Acquisition System for the Quantum Gas experiment* 15-20 min