Workshop on Microcavities in Quantum Optics

Sept. 21-24, 2004

Ringberg Castle
Lake Tegernsee, Bavaria, Germany

http://www.mpq.mpg.de/qdynamics/conferences/miqop
for more information mail to: miqop2004@mpq.mpg.de

Organizing Committee:

Axel Kuhn, Pepijn Pinkse, Gerhard Rempe
MPI für Quantenoptik, Hans-Kopfermann-Str. 1
D-85748 Garching, Germany

apply for participation until June 15, 2004

fee € 350,- includes full board, lodging and shuttle transfer from Munich to Ringberg

CONQUEST QGates SFB 631 DFG

MPQ

Optical cavities as a means to store light and alter the interaction between light and matter have recently become very popular in many fields of quantum optics. For example, novel cavities are now used to realise new lasers, cool and trap neutral atoms, detect single atoms, study Casimir-Polder and other cavity-QED effects. They are employed to generate non-classical states of light and build light-matter interfaces for quantum communication and quantum computation. Not surprisingly, there are a large number of cavity designs, varying from high-finesse optical and high-quality microwave cavities to microspheres, fibre resonators, DBR cavities and photonic bandgap resonators. The workshop aims to bring together different groups involved in cavity research, both experimental and theoretical. The idea is to learn from each other, mingle ideas, explore new directions in the various fields, and establish cross connections between technical developments and theoretical vistas. The Ringberg castle offers a relaxing atmosphere with plenty of comfortable corners that invite participants to informal discussions.

Speakers

Willem Vos
Jeff Kimble
Rainer Blatt
Luis Orozco*
Peter Knight
Helmut Ritsch
Vladan Vuletić
Herbert Walther
Tilman Esslinger
Jonathan Finley
Han Woerdman
Wolfgang Lange
Vahid Sandoghdar
Michael Chapman
Claus Zimmermann
Andreas Hemmerich
Arno Rauschenbeutel
Jean-Michel Raimond

*not confirmed yet