

Programme of the Workshop

Classical and Quantum Interference

supported by Research Project Measurement and Information in Optics

Congress Hall, Joint Laboratory of Optics of Palacký University
and Physics Institute of Academy of Sciences of the Czech Republic

Thursday, October 20, 2005

- 14:00–14:10 **Opening of the Workshop**
- 14:10–14:40 **M. Arndt:** Status and challenges in molecule interferometry
- 14:40–15:10 **S. Pascazio:** Control of decoherence
- 15:10–15:40 **J. Fiurášek:** Protocols for read-out of atomic quantum memory for light
- 15:40–16:30 **Coffee Break and discussion at posters**
- 16:30–17:00 **Y. Hasegawa:** Neutron optical experiments exploring fundamentals quantum phenomena
- 17:00–17:30 **J. Řeháček:** Minimal state tomography and its applications
- 17:30–18:00 **O. Haderka:** Direct measurement of photon number statistics and spatial correlations of photon twins

Conference Dinner

Friday, October 21, 2005

- 09:00–09:30 **L. Mišta:** Optimal partial estimation of quantum states
- 09:30–10:00 **I. Jex:** Single and two photon effects in Ising-type network
- 10:00–10:30 **Y. Miyamoto:** Generation and detection of optical beams with orbital angular momentum
- 10:30–11:00 **Coffee Break**
- 11:00–11:30 **P. Saari:** How small a packet of photons can be made
- 11:30–12:00 **S. Scheel:** Quantum theory of light and noise polarization in nonlinear optics
- 12:00–12:30 **M. Hendrych:** Control of the frequency correlations of two-photon state in parametric down conversion

- 12:30 **Closing of the Workshop**

Conference Lunch

Posters can be displayed during the workshop

Organizing committee:

Zdeněk Hradil, Jaromír Fiurášek, Jiří Herec, Ladislav Mišta, Tomáš Opatrný, Jarka Vaculíková