
CALL FOR PAPERS

for the 3rd workshop

CENTRAL EUROPEAN QUANTUM INFORMATION PROCESSING

May 4-8, 2006, Znojmo, Czech Republic

<http://www.quniverse.org/ceqip/>

Steering committee:

Jan Bouda
Vladimír Bužek
Jozef Gruska
Mário Ziman

CEQIP'06 is a workshop aimed to concentrate on current challenges of the theory of QIP from both physics and computing backgrounds, paradigms and perspectives.

Papers are solicited in all research areas related to quantum information processing, including, but not limited to:

Organizing Committee:

Jan Bouda (co-chair)
Mário Ziman (co-chair)
Ondřej Krajiček
Marián Roško (webmaster)

- new basic theory tools
- new methods of design and analysis of quantum algorithms and communication protocols
- quantum cryptography and security in cryptographic protocols
- laws, limitations and quantification of such specific resources as shared randomness, entanglement, parallelism, non-locality and reference frames
- threshold theorems and ways of fighting decoherence
- quantum programming and logic
- quantum computational complexity and quantum automata
- analysis of bounds on operations with physical systems imposed by quantum theory
- randomized computation versus quantum computation
- impacts of QIP on understanding and developing quantum physics and theory of computing

Invited Speakers:

(list is to be completed)

Časlav Brukner, *Un. Wien*
Markus Grassl, *Un. Karlsruhe*
Michał Horodecki, *Un. Gdańsk*
Philippe Jorrand, *Un. Grenoble*
Jaewan Kim, *KIAS Seoul*
Andreas Winter, *Un. Bristol*
(to be confirmed)

The conference fee is 250 EUR with accommodation in double room or 300 EUR with accommodation in single room. It covers accommodation, all meals, coffee breaks and social program.

CEQIP'06 is organized by Research Center for Quantum Information of Slovak Academy of Sciences in Bratislava and Quantum Laboratory of Faculty of Informatics of Masaryk University in Brno in cooperation with "Smart Systems" ARC Seibersdorf Research GmbH and Quniverse.sk.

Paper submission: Contributions may be submitted only electronically via the online submission form <http://www.quniverse.org/ceqip/>, registration section. Submissions should consist of contribution type, author names and a short abstract. It is expected that accepted papers will be presented at the workshop. Simultaneous submission to other conferences is allowed. The submission deadline is March 29th 2006.

Venue: Znojmo is a charming small town half-way between Vienna and Brno famous for history and vineyards, and the workshop is expected to be conducted in a very nice and stimulating atmosphere and with provocative and intensive quantum/classical social program that could lead to new correlations.
