

CALL FOR PAPERS

for the 4th workshop

CENTRAL EUROPEAN QUANTUM INFORMATION PROCESSING

June 24-27, 2007, Valtice, Czech Republic

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



CEQIP'07 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:

- 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:

Janos Bergou (New York)
Giacomo Mauro D'Ariano (Pavia)
Jens Eisert (Postdam) TBC
Mark Hillery (New York)
Rajagopal Nagarajan (Warwick)
Louis Salvail (Aarhus)
Barry Sanders (Calgary)
Vlatko Vedral (Leeds) TBC
M. Suhail Zubairy (College station)
Karol Zyczkowski (Krakov) TBC
Shigeru Yamashita (Nara)

The conference fee is 300 EUR including accommodation in a double room or 340 EUR including accommodation in a single room. It covers accommodation, all meals, coffee breaks and social program.

Paper submission: Contributions may be submitted only electronically via the online submission form. Simultaneous submission to other conferences is allowed. The submission deadline is May 3rd 2007.



Venue: Valtice is a charming small town near Austrian and Slovak border famous for history and vineyards. It is easily accessible from Vienna, Prague, Bratislava and Budapest by frequently going direct trains. The workshop is expected to be conducted in a very nice and stimulating atmosphere with provocative and intensive quantum/classical social program that could lead to new correlations. For more information about the venue see the webpage of the workshop.

Steering committee:

Jan Bouda, Vladimír Bužek,
Jozef Gruska, Martin Plesch,
Mário Ziman

Organizing committee:

Jan Bouda
Mário Ziman
Martin Plesch

CEQIP'07 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 Quniverse.