WILHELM AND ELSE HERAEUS PHYSICS SCHOOL

Modern Statistical Methods in Quantum Information Processing
Physikzentrum Bad Honnef, 22-26 August 2011

Organisers:

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Aims

To provide an overview over the very latest theoretical and experimental developments in quantum tomographic reconstruction, with emphasis on real data processing. The lectures will cover a variety of both established and novel methods, such as Maximum-Likelihood methods, Kalman filtering and approximation methods for the efficient reconstruction of quantum-mechanical many-body systems.

The aim is to bring together researchers in the field of quantum information processing and quantum engineering from all over Europe and to give them the opportunity to gain vital experience in statistical methods for verification and validation of their experimental efforts.

The school is targeted at students/researchers of all levels, but with a strong emphasis on early-stage researchers.

List of confirmed lecturers

Martin Plenio	Universität Ulm
Rafal Demkowicz-Dobrzanski	University of Warsaw
Werner Vogel	Universität Rostock
Zdenek Hradil	Palacky University Olomouc
Markus Hennrich	Universität Innsbruck
Christine Silberhorn	Universität Paderborn
Madalin Guta	University of Nottingham

Deadline for applications   Friday, June 3, 2011

More information at   www.heraeus2011.rhul.ac.uk