

**Mini workshop
on
Tensor Product, Kronecker Product, Applications
and Computer Algebra**

25 March - 26 March 2014, Davos

The topics discussed at the Mini workshop on “Tensor Product, Kronecker Product, Applications and Computer Algebra” will be:

- 1) Preservers on Tensor States
- 2) Kronecker quotients and quantum computations
- 3) Mutually unbiased bases, Kronecker product and Computer Algebra
- 4) Symmetric Informationally Complete Positive Operator-Valued Measures and Kronecker product
- 5) Matrix Product States and Computer Algebra
- 6) Quantum Markov Chains
- 7) Lax Representation and Kronecker Product
- 8) Quantum Cellular Automata
- 9) Non-Hermitian Spin Hamilton Operators and Kronecker Product
- 10) Truncated Bose Operators, Lie Algebras and Spectra
- 11) Nahm’s Equation, $su(2)$ and Jacobi elliptic functions
- 12) Teleportation and Hamilton Operator: Cayley-Hamilton versus Spectral decomposition
- 13) Kronecker Product, Wedge Product and Computer Algebra
- 14) Spin Matrix Polynomials and Computer Algebra

For each topic a 45 minute session is allocated.

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