

**Mini workshop
on
“New Topics in Multilinear Algebra and Applications”**

30 August - 31 August 2013, Villach

The topics discussed at the Mini workshop on “New Topics in Multilinear Algebra and Applications” will be:

- 1) Yang-Baxter Relation, Braid-Like Relation and Kronecker Product
- 2) Multilinear Algebra and Tensor Decomposition, Tensor Train Decomposition
- 3) Fractals, Kronecker Product and Eigenvalues
- 4) Nonlinear Eigenvalue Problems and Spin Systems
- 5) Bose-Fermi Systems, Superalgebras and Computer Algebra
- 6) Inverse Eigenvalue Problems
- 7) Majorana Fermions and the Lattice and Kronecker Product
- 8) Baker-Campbell-Hausdorff Relations and SymbolicC++
- 9) Hidden Markov Model and Kronecker Product
- 10) Spin Matrices, Kronecker Product, Commutator, Anticommutator and the Exponential Function
- 11) Non-normal Matrices and Analytic Functions
- 12) Matrices, Complex Analysis and Laplace transform
- 13) Preservers on Tensor States
- 14) Cabibbo-Kobayashi-Maskawa matrix, inverse Cayley Transform and exponential map
- 15) Spin Foam, intertwiners, Graph Theory and Kronecker product

For each topic a 45 minute session is allocated.

For more information please contact Prof. W.-H. Steeb at steebwilli@gmail.com
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