Contribution ID: **253** Type: **not specified**

Quantum integrable spin systems and generalized Schur - Weyl duality

Monday, June 28, 2010 11:30 AM (1 hour)

There are integrable (solvable) spin systems related to
quantum groups (quasi-triangular Hopf algebras), with
simple structure of space of states. The integrals
of motion belong to a quotient A of the braid group, which is a centralizer of the
symmetry quantum group
of the system. The space of states is a direct sum of
of tensor products of corresponding irreducible
representations of A and the quantum group.
This decomposition is multiplicity free.

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