

Local systems, reductions and quivers

Thursday, July 7, 2022 4:00 PM (1 hour)

Fock and Goncharov defined cluster structure on the space of decorated local systems on a surface. The corresponding quivers are BPS quivers for supersymmetric 4d theories, the corresponding X-cluster varieties are related to Coulomb branches. But the original construction is defined only for the case of generic monodromies. It appears that varieties and quivers for special monodromies can be obtained via Hamiltonian reduction. The examples include Ruijsenaars model and XXZ spin chain.

Based on joint work in progress with P. Gavrylenko, A. Marshakov, M. Semenyakin

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