

SPEAKER: Evgeny Mukhin (IUPUI)

TITLE: Gaudin models associated with Lie superalgebras.

ABSTRACT: We study the Gaudin models associated with Lie superalgebras using the Bethe ansatz method. We discuss the populations of solutions of the Bethe ansatz equations and the corresponding "opers". In our main examples of $\mathfrak{gl}(m|n)$ and $\mathfrak{osp}(m|2n)$ the opers can be identified with rational pseudo-differential operators (under some generic assumptions). We will discuss the differences and the similarities of the supersymmetric and the even cases.