

School of Mathematics and Physics Women in Mathematics Day

Integrable Gaudin Systems by Dr Inna Lukyanenko

Abstract:

Quantum integrability is based on the notion of commuting transfer matrices. In this talk I will discuss the construction of transfer matrices for integrable Gaudin systems (introduced by Gaudin in 1976), highlighting the use of the so-called "Leningrad notation" (developed in late 70s in Leningrad by Faddeev, Kulish, Sklyanin, Takhtadzhian and others).