

Séminaire de physique mathématique

Lundi 23/09/2019, 14h15

Orme des Merisiers Salle Claude Itzykson, Bât. 774

**From quantum integrability to classical one and back:
taming classicalness of XXZ spin chain**

Yuan Miao

Amsterdam

I will discuss about the recent work on the classical limit of anisotropic spin-half XXZ chain. From asymptotic Bethe ansatz technique in XXZ spin chain, the Bethe equation can be formulated as a Riemann-Hilbert problem, hinting a connection to finite-gap solution of classical Landau-Lifshitz field theory. By solving the classical corresponding problem, and using the functional technique developed by Kostov, Gromov et al, an exact quantum-classical correspondence of the solution to quantum integrable chain and classical integrable field theory is implied.
