

Im Oberseminar

Deformationsquantisierung

spricht am **4.11.2016 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

JULIAN KELLER

über das Thema:

Mathematical Aspects of the Toda Lattice

This talk aims to give an overview over some aspects of the finite Toda lattice, especially the non-periodic one. In particular, we'll use Lax pairs to obtain integrals of motion and show that the Toda lattice is a completely integrable Hamiltonian system. Following this, we'll see how the non-periodic Toda lattice can be regarded as dynamical system on a coadjoint orbit of the group of triangular matrices and how the classical r-matrix approach can be used to show the complete integrability of the non-periodic Toda lattice using only group theoretical methods.

gez. Knut Hüper