



E I N L A D U N G

im Rahmen des Seminars für Mathematische Physik
(Joint TU/UV Theory Seminar)

zum Vortrag

von

Tomáš Procházka

(Prag)

über

„Bethe equations and 2d conformal field theory”

Abstract:

The usual approach to 2d conformal field theory relies on the underlying Virasoro algebra.

I want to discuss how this fits into a broader framework of integrable systems.

In particular, the states in the Hilbert space can be labeled by solutions of algebraic equations, the Bethe equations. Perhaps surprisingly, Bethe equations associated to Virasoro algebra and its higher spin generalizations are very closely related to those of simplest Heisenberg SU(2) XXX spin chain. If time permits,

I will discuss the set of Bethe equations associated to 2d free boson which is closely related to solvable generalizations of the quantum mechanical harmonic oscillator and the classical system of Calogero particles.

Zeit: Dienstag, 28.11.2023, 14.00 h

Ort: Sem. R. DB gelb 03 (TU Wien Freihaus, Wiedner Hauptstrasse 8, 3rd floor, yellow tower).

gez.: S. Fredenhagen, D. Grumiller, T. Tran, A. Fiorucci