

# Bethe Colloquium

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## Hydrodynamics of integrable many-body systems

Integrable many-body systems have an extensive number of conservation laws. This implies that conventional hydrodynamics, based on mass, momentum, and energy, has to be rewritten. Surprisingly, on large space-time scales the two particle phase shift is the only microscopic information retained (except for Bose, Fermi, classical). For the purpose of the talk I will mainly focus on the classical Toda lattice.

### Lecture Hall 1

Physikalisches Institut

Nussallee 12

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**Thursday, 9<sup>th</sup> January, 2020, at 16 c.t.**

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