

ICTS

FOUNDATION DAY

LECTURE



INTERNATIONAL  
CENTRE for  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

# Generalized Hydrodynamics

by **Herbert Spohn**

Technical University Munich, Germany

In 1757 Leonhard Euler discovered the equations governing the dynamical behavior of fluids. Since then the hydrodynamic method has been applied with great success in many areas of physics. In my lecture, I will discuss a much more recent addition, which is concerned with the hydrodynamic equations for integrable many-body systems. As a very exceptional feature they possess an extensive number of conserved fields. Prime examples are the repulsive delta Bose gas and the Toda lattice, either classical or quantum.

5 pm, Saturday,  
26 December 2020

Use this link to join the lecture via Zoom -  
<https://bit.ly/ictsFDLecture2020>

Meeting ID: 999 5836 8561  
Passcode : 213014

LIVESTREAM ON YOUTUBE  
<https://youtu.be/wUU6yEL1ruc>

WEB PAGE - [icts.res.in/lectures/gen-hydro2020](https://icts.res.in/lectures/gen-hydro2020)

