



清华大学高等研究院

Institute for Advanced Study, Tsinghua University

学术报告

Speaker: **Tin-Lun Ho**
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Venue: **Conference Hall 322, Science Building, Tsinghua University**

Talk I: 3:30pm, Thursday, March 17, 2016

Title: Quantum Turbulence and Energy Cascade in Quantum Gas

Abstract: I shall discuss a new way to study the chaotic behavior using Floquet method and offer a new perspective to the conventional view of turbulence. This work is motivated by the recent experiment of Cambridge University currently under review.

Talk II: 10:30am, Friday, March 25, 2016

Title: Dynamics of Quantum Gases in Stretched Spacetime

Abstract: I shall discuss a method in terms of stretched spacetime to study the expansion of quantum gases in changing potentials of arbitrary shape. This work is related to the recent experiments of IASTU/RUC/ECNU collaboration (arXiv: 1512.02044), who observed step like expansion of quantum gases at scale invariant limit.