



# 清华大学高等研究院

Institute for Advanced Study, Tsinghua University

## 学术报告

- Title:** Semiclassical approach to dynamics in the vicinity of quantum phase transitions
- Speaker:** Prof. Wenge Wang  
*University of Science and Technology of China*
- Time:** 10:30am, Thursday, April 9, 2015
- Venue:** Conference Hall 322, Science Building, Tsinghua University

### Abstract

We discuss dynamics near quantum critical points at which the ground state is infinitely degenerate. It is shown that at the very neighborhood of a critical point, a semiclassical approach may be valid in the study of the dynamics of the system. Applications are given in the computation of the so-called quantum Loschmidt echo, or survival probability in several models.