

## 清华大学高等研究院

Institute for Advanced Study, Tsinghua University

## 物理学术报告 Physics Seminars (special talk)

**Title:** Search for effective low energy theories for spin liquid states

Prof. NG Tai Kai

Speaker:
The Hong Kong University of Science and Technology

**Time:** 3:15pm, Tuesday, April 2, 2013

(2:45~3:15pm, Tea, Coffee, and Cookie)

Venue: Conference Hall 322, Science Building, Tsinghua University

## Abstract

I shall describe in this talk the difficulties we face in constructing low energy theories for spin liquid states and shall explain our recent work on a Landau Fermi-type effective low energy theory for S=1/2 systems.

Some experimental predictions of our theory and its relation to slave-rotor type theories will be discussed. The limitation of the theory and some plausible directions of extensions of the theory will be discussed, especially in relation to S=1 systems.

http://www.castu.tsinghua.edu.cn Contact: Li Li (62789984, castu03@tsinghua.edu.cn)