清华大学高　研究院

Title: **Observation of thermally activated vortex pairs in a quasi-2D Bose gas**

Speaker: **Prof. Yong-il Shin(*Seoul National University*)**

Time: **3:15pm, Wednesday, May 8, 2013**
(2:45~3:15pm, Tea, Coffee, and Cookie)

Venue: **Conference Hall 322, Science Building, Tsinghua University**

Abstract

The Berezinskii-Kosterlitz-Thouless (BKT) theory provides a microscopic mechanism for the 2D phase transition, where vortices with opposite circulation are paired below a critical temperature. The BKT mechanism has been experimentally tested in many 2D systems, but there has been no direct observation of the vortex pairing in a 2D superfluid.