



復旦大學

Fudan University



# 復旦大學物理系物質科學報告

## Physics Department Colloquium

### The Higgs Boson & Beyond

**Prof. Tao Han**

*University of Pittsburgh*

**Abstract:** With the milestone discovery of the Higgs boson at the CERN LHC, high energy physics has entered a new era. The completion of the “Standard Model” (SM) implies, for the first time ever, that we have a relativistic, quantum-mechanical, self-consistent theoretical framework, valid up to exponentially high energies, perhaps to the Planck scale. Yet, there are compelling reasons to believe that new physics beyond the SM should exist, and perhaps is not far from our reach. I discuss the need for the new physics, and motivate the future colliders beyond the LHC.

**Time: 2:00pm, Tuesday, May 17, 2017**

**Location: Physics Building, Room 221B**

**(Cookies and coffee are served from 1:30 pm)**