

THE UNIVERSITY OF HONG KONG

PHYSICS DEPARTMENT

Joint CUHK-HKU Lecture Series on Non-accelerator Neutrino Physics

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Neutrinos play important roles in nuclear and particle physics, astrophysics and cosmology. In the past decade, there have been major advances in our knowledge of the neutrinos. In these lectures, I will review how these advances, such as the resolution of the Solar Neutrino Problem and the discovery of neutrino oscillations, were made. I will also summarize the synergism of future accelerator and non-accelerator based neutrino experiments.

Lecture 1: History of Neutrinos and Neutrino Mass

Lecture 2: Neutrino Oscillations - Atmospheric and Solar Neutrinos

Date: 10 July 2008 (Thu)

Time: 3-5pm

Location: CUHK, Science Center, L2

Lecture 3: Terrestrial Neutrinos - Reactor and Geo-neutrinos

Lecture 4: Majorana Neutrinos, and Neutrinos in Astrophysics and Cosmology

Date: 11 July 2008 (Fri)

Time: 3-5pm

Location: HKU, Chong Yuet Ming Physics Bldg, Room 522
(Coffee and tea will be served 20 minutes prior to the seminar)