



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
COLLOQUIUM

Quantum Nature of Hydrogen Atoms Adsorbed on Metallic Surfaces

by

Professor See-Chen YING (應詩正教授)
Physics Department
Brown University, USA

Date: January 21, 2011 (Friday)

Time: 4:00 - 5:00 p.m.

Place: L2, Science Centre, CUHK

(Light refreshments will be served 20 minutes prior to the colloquium.)

ALL INTERESTED ARE WELCOME

Abstract

The understanding of Hydrogen adatom dynamics is important for practical problems such as hydrogenation reactions and hydrogen storage. It also provides a unique system where the change in dynamics from classical to quantum nature occurs at a convenient temperature of around 100K. In this talk, I will review recent experimental and theoretical works on the dynamics of H adatoms on metallic surfaces such as H/Pt(111). The role of disorder and the possible observation of Anderson localization are particularly challenging and interesting.