Quantum Nature of Hydrogen Atoms Adsorbed on Metallic Surfaces

by

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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
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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.

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