THE CHINESE UNIVERSITY OF HONG KONG

Department of Physics

COLLOQUIUM

Quest for Ultracold Polar Molecules

by

Dr. Da-jun WANG (王大軍博士)
JILA, NIST and University of Colorado, USA

Date: February 26, 2010 (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 ability to form ultracold molecules promises to extend many of the recent advances of ultracold physics to the molecule domain. In this talk, I will introduce you the most recent developments of producing cold and ultracold molecules by both direct molecular cooling and association of ultracold atoms. In particular, I will show you our effort at JILA where we have combined technologies of laser cooling, Bose-Einstein condensation and femtosecond frequency comb to produce a high-phase-space density gas of ultracold polar molecules in the lowest rovibronic state.

Enquiries: 2609 6339