

Liu Bie Ju Centre for Mathematical Sciences
City University of Hong Kong

Mathematical Analysis and its Applications Colloquium

Organized by Prof. Ya Yan LU and Prof. Wei Wei SUN

Moving Frames in Applications

by

Professor Peter J. Olver
University of Minnesota, USA

Date : Feb 07, 2012 (Tuesday)
Time : 4:30 pm to 5:30 pm
Venue: Room B6605 (College Conference Room)
Blue Zone, Level 6, Academic 1 (AC1)
City University of Hong Kong

ABSTRACT:

In this talk, I will describe a new approach to the theory of moving frames. The method is completely algorithmic, and applies to very general Lie group actions and even infinite-dimensional pseudo-groups. It has led to a wide variety of new applications, ranging over differential equations, the calculus of variations, geometric flows, image processing, numerical methods, differential geometry, invariant theory, and elsewhere. The talk will survey the key ideas, and present some of the principal applications.

Light refreshments will be provided at Room B6605 before the colloquium from 4:00 pm to 4:30 pm. Please come and join us!

**** All interested are welcome ****

For enquiry: 3442-9816



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