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

Mathematical Analysis and its Applications Colloquium

Organized by Prof. Hui-Hui Dai and Dr. Dan Dai

Near-Field Imaging of Rough Surfaces

by

Professor Peijun Li

Department of Mathematics, Purdue University, USA

Date : Oct 21, 2014 (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, our recent progress on inverse surface scattering problems will be discussed. I will present new approaches to achieve subwavelength resolution for the inverse problems. The method requires only a single incident field and is realized by using the fast Fourier transform. The error estimates of the solution for the model equation will be addressed. I will also highlight ongoing projects in rough surface imaging, random medium imaging, and near-field optics modeling.

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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