



Department of Mathematics
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Colloquium

Optical and Photo Acoustic Tomography

Professor Simon Arridge
University of College London

Abstract

Optical Imaging in highly scattering media is an important topic of interest because of the rich information about physiological states that provide strong contrast in the visible and near-infrared parts of the spectrum. One approach is Diffuse Optical Tomography (DOT) which is a non-linear and strongly ill-posed inverse problem. Photo Acoustic Tomography (PAT) is an example of Coupled Physics Imaging which combines the high contrast of optical imaging with the high resolution of acoustic waves. In this talk I will present some approaches to these problems, and to the combined problem of Quantitative Photo Acoustic Tomography (QPAT).

Date: April 19, 2016 (Tuesday)
Venue: Rm. 408, William M.W. Mong Engineering Building,
The Chinese University of Hong Kong, Shatin
Time: 10:00am ~ 11:00am

All are Welcome