

Mathematics Colloquium

**Thursday 23rd February 2012, 5:00-6:00pm
LT 308 Computing Department, Huxley Building**

Professor Athanassios S. Fokas, University of Cambridge on:

“Integrability, Medical Imaging, and Boundary Value Problems.”

In this lecture, two such implications will be reviewed: (a) A novel approach to certain important medical imaging techniques, which has led to the development of an analytical, as opposed to the commercially used statistical, algorithm for Single Photon Emission Computerised Tomography (SPECT). (b) A new approach to analysing boundary value problems, which unifies the fundamental contributions to the analytical solution of PDEs of Fourier, Cauchy and Green, and also constructs a non-linearization of some of these results.



Reception afterwards in the Huxley Common Room , Level 5, Huxley Building.