New Trends in Spectral Analysis and PDE

Wednesday 12 December AM   CO 118

9.50–10.15   Graeme Wake
Spectral Properties of non-Local Eigenvalue Problems

10.15–10.40   Florina Halasan
Absolutely Continuous Spectrum for the Anderson Model on More General Trees

11.00–11.50   **Keynote:** Colin Fox
Semi-analytic Spectral Methods

11.50–12.15   David Wall
The Mathematics of Imaging in Magnetic Resonance Elastography

Wednesday 12 December PM   CO 118

14.50–15.15   Yulia Karpeshina
Quasi-intersections of Isoenergetic Surfaces: Description in Terms of Determinants

15.15–15.40   Gunter Stolz
Bubbles Tend to the Boundary

16.00–16.25   William Desmond Evans
Inequalities of Hardy-Sobolev and Hardy-Gagliardo-Nirenberg Type

Thursday 13 December AM   CO 118

9.50–10.15   Boris Pavlov
An ill-Posed Problem in Scattering Theory

10.15–10.40   Annalisa Calini
Cable Formation for Finite-Gap Solutions of the Vortex Filament Flow

11.00–11.50   **Keynote:** Jochen Brüning
The Equivariant Index Theorem for Dirac Operators

11.50–12.15   Anjan Biswas
Quasi-Stationary Solitons for Langmuir Waves in Plasmas

Friday 14 December PM   CO 118

14.50–15.15   Stephen McDowall
Optical Tomography in Media with Varying Index of Refraction

15.15–15.40   Boris P Belinskiy
Stochastic Wave Equation Driven by a Fractional Brownian Motion

16.00–16.25   Sergei Avdonin
Control and Inverse Problems for Partial Differential Equations on Graphs

16.25–16.50   Georgi Raikov
Spectral Properties of a Magnetic Quantum Hamiltonian on a Strip

16.50–17.15   Felipe Leitner
On Unitary Conformal Holonomy