EdinSeaG: Noncommutative Geometry along the North Sea

Monday 26 – Friday 29 May 2025

The programme is subject to change. All times are British Summer Time (BST).

MONDAY 26 MAY	
09.00-09.40	Registration and refreshments
09.40-09.45	Welcome and housekeeping
09.50-10.30	**Bob Yunken,** University of Lorainne *A K-theoretic approach to the minimal K-types of representations of real reductive groups*
10.40-11.00	Refreshments
11.00-11.20	**Francesco Pagliuca,** University of Glasgow *Equivariant periodic cyclic homology*
11.25-11.45	**Aaron Kettner,** Czech Academy of Sciences/Charles University *Cuntz--Pimsner algebras of partial automorphisms twisted by vector bundles*
11.50-12.30	**Haluk Sengun,** University of Sheffield *New applications of C*-algebras in representation theory*
12.40-14.00	Lunch
14.00-14.40	**Walter van Suijlekom,** University of Nijmegen *A generalization of K-theory to operator systems*
14.50-15.30	**Ulrik Enstad,** University of Oslo *Z-stability of twisted group C*-algebras of nilpotent groups*
15.40-16.00	Refreshments
16.00-16.40	**Karen Strung,** Institute of Mathematics of the Czech Academy of Sciences *Fell bundles over unital based rings*
16.50-17.30	**Réamonn Ó Buachalla,** Charles University Prague *Quantum exterior algebras, torsion-free bimodule connections, and the Cactus Group*
17.30-18.30	Welcome reception hosted at ICMS

TUESDAY 27 MAY	
09.30-10.10	**David Kyed,** University of Southern Denmark *Quantum metrics from quantum groups*
10.20-10.40	**Jesse Reimann,** Delft University of Technology *On the best constants of Schur multipliers of second order divided difference functions*
10.45-11.10	Refreshments
11.10-11.50	**Sara Azzali,** University of Bari *Traces in KK-theory and index pairings*
12.00-12.40	**Dimitris Gerontogiannis,** IMPAN *Ideal quantum metrics from fractional Laplacians*
12.50-14.00	Lunch
14.00-14.40	**Koen van den Dungen,** University of Bonn *Index theory and spectral flow of Toeplitz operators*
14.50-15.30	**Eske Ellen Ewert,** University of Hannover *Partial group actions and boundary value problems*
15.40-16.00	Refreshments

16.00-16.40	**Bram Mesland,** University of Leiden *E-mergence of the spectral localiser*
17.30-18.30	*Public lecture hosted in G03 (ground floor)* **Walter van Suijlekom,** University of Nijmegen *Drummed up for maths: spectra and geometry*

WEDESDAY 28 MAY	
09.30-10.10	**Joakim Arnlind,** Linköping University *Necessary and sufficient conditions for the existence of Levi-Civita connections*
10.20-10.40	**Victor Hildebrandsson,** Linköping University *Necessary and sufficient conditions for noncommutative Levi-Civita connections*
10.45-11.10	Refreshments
11.10-11.50	**Francesca Arici,** University of Leiden *Metric Aspects of Noncommutative Geometry*
12.00-12.40	**Jens Kaad,** University of Southern Denmark *Noncommutative metric geometry of quantum spheres*
12.50-14.00	Lunch
14.00-14.40	**Are Austad,** University of Oslo *Generating hermitian algebras from noncommutative geometry*
14.50-15.30	**Evgenios Kakariadis,** University of Newcastle *Morita equivalence for operator systems*
15.40-16.00	Refreshments
16.00-16.40	**Marzieh Forough,** Czech Technical University in Prague *Groupoid equivariant KK-theory and C*-extensions*
16.50-17.40	**Sarah Plosker,** Brandon University and **Lara Ismert,** University of Nebraska *Operator Algebras Mentor Network: Impact of Community-Based Mentoring*
19.00	Workshop dinner

THURSDAY 29 MAY	
09.30-10.10	**Christian Bönicke,** University of Newcastle *The triangulated category approach to groupoid equivariant KK-theory*
10.20-10.40	**Xiaoqi Lu,** University of Glasgow *Hilbert transforms on Coxeter groups and groups acting on buildings*
10.45-11.10	Refreshments
11.10-11.50	**Teun van Nuland,** University of Delft *The Feynman rules of spectral QED*
12:00-12.40	**Jacek Krajczok,** Vrije Universiteit Brussel *Invariants of fusion algebras of compact quantum groups*
12.50-14.00	Lunch
14.00-14.40	**Xin Li,** University of Glasgow *On Hausdorff covers for non-Hausdorff groupoids*