DALHOUSIE MATHEMATICS COLLOQUIUM

Monday January 29, 3:30 pm, Chase 319

Speaker: Judith Packer
(University of Colorado, Boulder)

Wavelets associated to representations of graph C-algebras*

Here we discuss notions of wavelets defined on L^2-spaces for fractal-like sets associated to certain representations of graph C*-algebras and higher-rank graph C*-algebras, where the graphs in question are finite and strongly connected. Generalizing work of M. Marcolli and A. Paolucci, we obtain wavelets using the isometries and partial isometries generating the C*-algebras in question, coming from the graph relations. We also discuss some related spectral triples. This work is joint with C. Farsi, E. Gillaspy, A. Julien, and S. Kang.