

NUMBER THEORY SEMINAR

Similar Matrices and Topological Properties of Self-Affine Tiles

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WHEN: Wed 24 Mar 2010, 3:30 p.m.

WHERE: Chase 319

ABSTRACT:

Multidimensional radix representations generate self-affine sets that tile R^n under translation by integer vectors. These sets are of interest to people studying iterated function systems, as well as to wavelet theorists. Avra Laarakker and I have recently made progress in investigating topological properties of these tile sets. In this talk, I will present our results and methods, and discuss the possibility of solving some related open problems with our approach.

Any questions, please email: rnoble@mathstat.dal.ca.