

DALHOUSIE MATHEMATICS COLLOQUIUM

Monday October 15 2018, 3:30 pm, Chase 319

Speaker: Keith Taylor
(Dalhousie University)

Wavelet Sets for Crystal Symmetry Shifts

The Shannon wavelet is useful for the analysis of functions of one real variable. We will explore a generalization to higher dimensions with a focus on the two dimensional plane where results are easily displayed. Then we will generalize again by replacing integer shifts with the symmetry motions of a 2d crystal (aka wallpaper) group.