Discrete Mathematics Seminar

Time: Friday, 20 February 2015, 2:00 – 3:00 PM

Location: 237 Derrick Hall

Title: Unitary Orbits in 1 Dimensional NCCW Complexes

Speaker: Dr. Chi Weng Cheong, Mathematics Department

Abstract:

Let A be a 1-dimensional NCCW complex. In this talk, we will show that the usual distance d_U defined on the approximately unitary equivalence classes (unitary orbits) of self-adjoints in A is equal to a distance d_W defined on morphisms from the Cuntz semigroup of $C_0(0, 1]$ to $Cu(A)$. In addition, another distance d_P on approximately unitary equivalence classes related to spectral information of positive elements in the classes is proved to be equal to d_U and d_W.