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 $d_W$. 