The Department of Mathematical Sciences presents a colloquium with

Professor Dori Luli
University of Cincinnati

Thursday, April 3, 2014
4 – 5 pm
Room 135 WCharlton Hall

A Neuronal Network Model of *Drosophila* Antennal Lobe

Different views exist of how circuits of the *Drosophila* antennal lobe translate input from the olfactory receptor neurons into projection neuron output. We construct a conductance based neuronal network model of the *Drosophila* antennal lobe with the aim of understanding possible mechanisms within the antennal lobe that account for the variety of projection neuron activity observed in experimental data. We explore possible outputs obtained from olfactory receptor neuron input that mimic experimental recordings under different connectivity paradigms.

Refreshments will be served 3:15 – 3:45 pm in the Faculty & Graduate Student Lounge Room 4118 French Hall West