Geometry, Groups and Dynamics/GEAR Seminar
(held at the Illinois hub of GEAR **)**

12:00 pm, Thursday, November 17, 2016, 243 Altgeld Hall
Gregory Kelsey (Bellarmine University)
The horofunction boundary of the lamplighter group
The horofunction boundary of a metric space is defined by embedding it in the space of continuous functions. This boundary frequently behaves more nicely than the visual boundary for spaces that are neither hyperbolic nor CAT(0). The lamplighter group is an amenable group with exponential growth that is neither hyperbolic nor CAT(0) and has provided many interesting examples and counterexamples in group theory. In joint work with Keith Jones, we fully describe the horofunction boundary of the lamplighter group with the word metric arising from its finite state automaton generating set.

Video