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

Thursday, November 6, 2014, 1:00 pm, 243 Altgeld Hall

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Local finiteness of the curve complex and tight geodesics

Abstract: The curve complex is locally infinite. In this talk, we recover this obstacle in the following sense. First, we observe the property which any locally finite graph with a uniformly bounded valency satisfies. Then, we show that the curve complex also satisfies this property after passing to the curve complex of some subsurface by subsurface projections. As a corollary of this, we give a computable and uniform bound for the cardinality of the Bowditch's slices on tight geodesics.

Video