

# Topology, Arithmetic, & Dynamics Seminar

Proper affine deformations of the one-holed torus

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Proper affine deformations of the one-holed torus are complete 3-dimensional Lorentzian manifolds whose linear holonomy defines a complete one-holed torus. Starting with one pair of generators of the fundamental group of a hyperbolic one-holed torus, a “tile”, in the shape of a projective triangle, of proper affine deformations can be constructed. The space of proper affine deformations can then be tiled by these projective triangles whose interiors do not overlap. The combinatorics of the tiles is directly tied to the the combinatorics of the Farey tessellation.

Date: **Friday, March 6, 2015**

Time: **2:30-3:30pm**

Place: **4106 Exploratory Hall**

For special accommodations, please contact Sean Lawton via email at [slawton3@gmu.edu](mailto:slawton3@gmu.edu).