Topology, Arithmetic, & Dynamics Seminar

The geometry of Euclidean polygons

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Last time (10-15-14) Sean Lawton told us about a special kind of geometric object called a moduli space. I will describe a particular class of moduli spaces formed by sets of polygons in Euclidean 3$-$space. Several properties from differential geometry will be illustrated on these spaces using various operations on polygons, in particular I will show that these spaces have special coordinate systems which can be described using the geometry of convex polytopes. Time permitting, I'll mention some applications of these spaces in mathematical physics, biology, and algebraic geometry.

Date: **Wednesday, October 29, 2014**
Time: 4:00 pm
Place: Fishbowl (4th floor of Exploratory Hall)

For now, the seminar is BYOC. For special accommodations, please contact Sean Lawton via email at `slawton3@gmu.edu`.