

# Topology, Arithmetic, & Dynamics Seminar

Coordinates for representations of 3-manifold groups

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We study the shape and Ptolemy varieties of a triangulated compact 3-manifold  $M$ . The varieties give coordinates for representations of  $\pi_1(M)$  in the sense that each point determines a representation (up to conjugation). We describe the varieties, how to compute them, and how to compute invariants such as trace fields and complex volume.

Date: **Friday, October 9, 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).