

# **Topology, Algebraic Geometry, & Dynamics Seminar**

## **Discretely shrinking targets in moduli space**

Grace Work, Girls' Angle and M.I.T.

Consider a nested family of target sets shrinking at a specified rate and a given flow, we want to understand the set of points whose orbits hit these targets infinitely often under the flow. One way to examine this set is to determine under what conditions this set has full measure. This question is closely related to the Borel-Cantelli Lemma and also gives rise to logarithm laws. In joint work with Spencer Dowdall we examine this particular question for Teichmüller flow on the moduli space of unit-area quadratic differentials.

Date: Friday, December 6, 2019

Time: 10:30-11:30 am

Place: 4106 Exploratory Hall

For special accommodations, please contact David Carchedi via email at [dcarched@gmu.edu](mailto:dcarched@gmu.edu).