

MA T H E M A T I C A L PH Y S I C S SE M I N A R

Rutgers University
Hill Center - Room 705

**Characterizing Complex Spatiotemporal Systems
Using Persistent Homology**

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Abstract

Persistent homology is a fairly new algebraic topological tool that can be used to quantify the "shape" of a function. I will describe it and discuss our attempts to use it to understand phenomena such as Rayleigh-Benard convection and dense granular Media.