



Special Colloquium

UCR
Mathematics
Department

DR. MATTHEW DURHAM
YALE

"NEGATIVE CURVATURE PHENOMENA IN MAPPING CLASS GROUPS OF SURFACES"

Gromov hyperbolicity is a powerful notion of negative curvature for metric spaces and groups which has revolutionized our understanding of many important objects in low dimensional topology, including mapping class groups of finite type surfaces via the work of Masur-Minsky.

I will discuss some of my contributions to the study of mapping class groups, including building a new boundary for them and developing a theory of strong convexity properties for their subgroups, with implications for the geometry of surface group extensions.

Wednesday, January 17th, 2018

Surge 284

Tea Time @ 4:00 p.m.

Talk Begins @ 4:10 p.m.

Ends @ 5:10 p.m.

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