

The College of Arts & Sciences
Department of Mathematical Sciences

Colloquium

Professor Guy David

Ball State University

Thursday, September 6
Room 250, 60 West Charlton
4:00 – 5:00 pm

Lipschitz differentiability, embeddings, and rigidity for group actions

We discuss a class of metric spaces that, despite being non-Euclidean, support a first-order calculus for Lipschitz functions due to Cheeger. After introducing these spaces, we will survey some of their embedding properties and explain a theorem of the speaker and Kyle Kinneberg concerning embeddings in Carnot groups. Then we will explain an application of this last result to a problem on group actions in hyperbolic geometry.

Refreshments will be served 3:15 – 3:45 pm in the Faculty & Graduate Student Lounge Room 4118 French Hall West

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