Topology, Arithmetic, & Dynamics Seminar

Lipschitz maps from PI spaces to Carnot groups

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Abstract: In this talk, we'll discuss the problem of finding bi-Lipschitz behavior in non-degenerate Lipschitz maps between metric measure spaces. Specifically, we'll look at maps from (subsets of) Ahlfors regular PI spaces into sub-Riemannian Carnot groups. We will see that such maps have many bi-Lipschitz tangents, which verifies a conjecture of Semmes. If time permits, we'll discuss what these methods can say about whether such maps have bi-Lipschitz pieces. This is recent joint work with Guy C. David.

Date: Friday, November 17, 2017 Time: 2:30-3:20 pm Place: 4106 Exploratory Hall

For special accommodations, please contact Sean Lawton via email at slawton30gmu.edu.