

Dynamics Seminar

Marked Length Spectrum Rigidity for Surface Amalgams

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Abstract: The marked length spectrum of a negatively curved metric space can be thought of as a length assignment to every closed geodesic in the space. A celebrated result by Croke and Otal says that metrics on negatively curved closed surfaces are determined completely by their marked length spectra. Apart from being natural generalizations of surfaces, surface amalgams also have fundamental groups that provide examples of limit groups and finite-index subgroups of RACGs. In my talk, I will discuss my work towards extending Croke and Otal's result to a large class of surface amalgams.

Wednesday, November 1 at 4:00 PM in 427 SEO