

Marked Length Spectrum Rigidity for Certain Quotients of the Davis Complex

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The marked length spectrum of a metric space can be thought of as a length assignment to every homotopy class of the metric space. A celebrated result by Otal says that for negatively curved closed surfaces, the marked length spectrum completely determines the metric. In my talk, I will discuss my work towards extending Otal's result to a class of surface amalgams, which are quotients of model geometries of right-angled Coxeter groups.