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Noelle Sawyer* (nsawyer@wesleyan.edu). *Partial marked length spectrum rigidity for negatively curved surfaces*. Preliminary report.

The marked length spectrum of a metric on a compact Riemannian manifold records the length of the shortest closed curve in each free homotopy class. It is known that a negatively curved metric on a compact Riemannian manifold is uniquely determined by its marked length spectrum up to isometry. My results show that under certain conditions on the excluded homotopy classes, a partial marked length spectrum also uniquely determines such a metric. (Received September 14, 2019)