1163-51-857Noelle Sawyer* (sawyern@southwestern.edu). Marked Length Spectrum Rigidity with Partial
Data. 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. Suppose we know that a metric m on a compact surface is negatively curved and Riemannian, and we know the marked length spectrum of m, excluding a set of homotopy classes that grows slowly. My results show that is enough to uniquely identify the metric m. (Received September 13, 2020)