1144-53-137 **Noelle Sawyer*** (nsawyer@wesleyan.edu). *Volume and partial length spectrum 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. Let S be a surface. It is known that an inequality between the marked length spectra of two metrics on S implies a corresponding inequality between the area with respect to the metrics. I will show that the same conclusion holds if the inequality only holds on particular subsets of $\pi_1(S)$. (Received August 21, 2018)