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Otis Chodosh* (ochodosh@princeton.edu). *New results concerning the large scale behavior of area in asymptotically flat manifolds.*

I will survey some recent results that expand our understanding of the relationship between scalar curvature, asymptotically flat manifolds, and the large scale behavior of area and volume. In particular I will mention recent results concerning the isoperimetric problem (joint work with M. Eichmair, Y. Shi, and H. Yu) and area minimizing surfaces (joint work with M. Eichmair). (Received January 09, 2017)