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Andrew Martin Zimmer* (aazimmer@umich.edu), Department of Mathematics, 2074 East Hall, 530 Church St, Ann Arbor, MI 48109. *Asymptotically harmonic manifolds.*

A complete Riemannian manifold without conjugate points is called asymptotically harmonic if the mean curvature of its horospheres is a universal constant. Examples of asymptotically harmonic manifolds include flat spaces and rank one locally symmetric spaces of noncompact type. In this talk we will describe some recent results concerning the classification of asymptotically harmonic manifolds. (Received September 02, 2012)