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Richard Schoen* (rschoen@uci.edu), Richard Schoen, Department of Mathematics, University of California, Irvine, Irvine, CA 92697-3875. *Constructing complete manifolds with lots of spectral gaps.*

We will discuss the question of the existence of gaps in the spectrum of the Laplacian for complete manifolds with bounded geometry. In particular we will outline a construction which induces an arbitrarily large finite number of gaps without changing the large scale geometry. This is a joint work with Hung Tran. (Received September 25, 2017)