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Hong-Kun Zhang* (hongkunz@gmail.com), Dept. of Math & Stat., University of Massachusetts, Amherst, MA 01003. *Lower bound for slow decay rates of correlations.* Preliminary report.

We obtain the optimal lower bound for slow decay rates of convergence to SRB measures for nonuniformly hyperbolic systems with singularities including chaotic billiards. Our result is applied to certain billiards as well as some hyperbolic maps with singularities. This talk is based on recent joint work with Nikolai Chernov and Sandro Vaienti. (Received December 04, 2012)