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Michael J Field* (mf@uh.edu), Dept Mathematics, University of Houston, Houston, TX
77204-3008, and **I S Melbourne** and **A Torok**. *Mixing for flows and diffeomorphisms*.

We describe some recent results on rates and stability of mixing for generic hyperbolic flows (joint work with Ian Melbourne, Surrey, and Andrew Tork, UH) and also describe some new geometric classes of non-uniformly hyperbolic diffeomorphisms and their statistical properties. (Received March 02, 2006)