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**Ming Liao\*** ([liaomin@mail.auburn.edu](mailto:liaomin@mail.auburn.edu)), Department of Mathematics, Auburn University,  
Auburn, AL 36849. *Decomposition of stochastic flows.*

The stochastic flow generated by a stochastic differential equation on a compact Riemannian manifold may be decomposed as a random transformation with a stationary point followed by a random isometric transformation. Moreover, the first transformation preserves the directions in which the tangent vectors at the stationary point are dilated at fixed Lyapunov rates. Such a decomposition is unique. (Received September 24, 2000)