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**Hongxin GUO\*** ([hongxin.guo@uni.lu](mailto:hongxin.guo@uni.lu)). *Martingales on manifold with time dependent metrics*. Preliminary report.

Arnaudon, Coulibaly and Thalmaier introduced  $g(t)$ -Brownian motion on manifold with time dependent metrics, and showed applications to the Ricci flow. In this talk we attempt to generalize  $g(t)$ -Brownian motion to martingales on manifold with changing metrics. We are in particular interested in the applications to the Ricci flow. (Received June 22, 2011)