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Jakkur, Bangalore, India. *Examples of Stochastic Flows in Non-Commutative Manifolds.*

Two examples- Weyl  $C^*$ - algebra and Quantum Heisenberg manifold are considered. There are natural actions of Classical Lie groups on them and they give rise to "natural non-commutative" Laplacians on these manifolds. The stochastic flows driven by these Laplacians on the non-commutative manifolds are constructed. (Received September 25, 2006)