

A counterexample for the optimality of Kendall-Cranston coupling

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Abstract

We construct a Riemannian manifold where the Kendall-Cranston coupling of two Brownian particle does not maximize the coupling probability.

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Pages: 66-72

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Bibliography

1. M. Cranston. Gradient estimates on manifolds using coupling. *J. Funct. Anal.* 99 (1991), no. 1, 110--124. [Math review 93a:58175](#)
2. E.-P. Hsu, K.-Th. Sturm. Maximal coupling of Euclidean Brownian motions. preprint.
3. W. S. Kendall. Nonnegative Ricci curvature and the Brownian coupling property. *Stochastics* 19 (1986), no. 1-2, 111--129. [Math Review 88e:60092](#)
4. K. Kuwada. On uniqueness of maximal coupling for diffusion processes with a reflection. to appear in Journal of Theoretical Probability.
5. M.-K. von Renesse. Intrinsic coupling on Riemannian manifolds and polyhedra. *Electron. J. Probab.* 9 (2004), no. 14, 411--435. [Math Review 2005i:60158](#)

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