

## Cut locus and Riemannian central limit theorems

*Friday, September 13, 2019 9:00 AM (20 minutes)*

Statistics on Riemannian manifolds has attracted much interest, it being the natural setting for considering data on smooth curved spaces. I will discuss a Central Limit Theorem for closed Riemannian manifolds, assuming certain stability hypothesis for the cut locus, which always holds when the manifold is compact but may not be satisfied in the non-compact case. This is joint work with Bejnamin Eltzner, Stephan Huckemann, and Wilderich Tuschmann.

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