

Random measured laminations and Teichmüller space

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In this talk, we introduce a canonical geodesic current K_X for each $X \in Tg$, representing a randomly selected simple closed geodesic on X . The map $X \mapsto K_X$ defines a proper embedding of Teichmüller space Tg into the space of geodesic currents. This embedding naturally leads to a compactification of Tg that is distinct from Thurston's compactification. We will explore the construction of K_X and its geometric properties. This is a joint work with Curt McMullen.

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