

Ergodicity of Stochastic Curve Shortening Flows

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We discuss a model of curvature flow for a $1 + 1$ dimensional interface in an $2D$ isotropic Brownian flow. Well posedness of the dynamics is established in the classical variational SPDE framework, using a modified coercivity condition. In the additive noise case we also show ergodicity by adapting the lower bound technique proposed recently by Komorowski, Peszat and Szarek.