

## Stochastic heat flow: axiomatic formulation and log log fluctuations

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The Stochastic Heat Flow (SHF) emerges as the scaling limit of directed polymers in random environments and the noise-mollified stochastic heat equation, specifically at the critical dimension of two and near the critical temperature. I will present an axiomatic formulation of the SHF as well as its construction based on its moments, and discuss how this formulation can be applied to solve a range of problems, particularly the asymptotic pointwise fluctuations of the averaged SHF.