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Multimodal stationary states in symmetric single-well potentials driven by Cauchy noise

Stationary states for a particle moving in a single-well, steeper than parabolic, potential driven by Lévy noise can be bimodal. We explore in details conditions required to induce multimodal stationary states with a modality higher than two and provide phenomenological arguments determining necessary conditions for emergence of stationary states with an anticipated multimodality. The poster presents results of this consideration using sample symmetric single-well potentials, for which phenomenological arguments were verified using numerical methods.

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Summary

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