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# Instantons in a Lagrangian model of turbulence

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## Abstract

The Recent Fluid Deformation Closure (RFDC) is a stochastic model of Lagrangian turbulence which reduces drastically the number of degrees of freedom compared to real turbulent flows. In this work we make use of the path-integral formalism in order to calculate instantons solutions and derive probability distribution functions of this model in the limit of small noise. Analytical results can be obtained in some cases.

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