On the equivalence of Gaussian and non-Gaussian trajectories in the general relativity

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Abstract

We consider the extension of the conjugate gauge theories in the framework of the non-Gaussianity of the black hole and the Gaussianity of the quark-gluon plasma to the case of a scalar field in the presence of a non-Gaussian matter component. The resulting theory has a two-parameter domain wall equation, and its spectrum is the same as the Gaussian theory. We comment on the possible relation of the Gaussian and non-Gaussian trajectories of the scalar field and its scalar deformation, and agree with the results of the Gaussian theory; the non-Gaussianity of the black hole and its Gaussianity of the quark-gluon plasma are not related by the Gaussianity-Gaussianity correspondence.