



More on the dilatonic Einstein-Gauss-Bonnet gravity

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Einstein-Gauss-Bonnet gravity coupled to a dynamical dilaton is examined from the viewpoint of Einstein's equivalence principle. We p oint out that the usual frame change that applies to the action without curvature correction does not cure the problem of nonminimal coupling s by the dynamical nature of a dilaton field. Thus a modification of the Einstein frame is required. It is proposed that the kinetic term of a dilaton should be brought to a canonical form, which completely fixes the additional terms associated with the frame transformation.

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