

# Inflation with light Weyl ghost

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Inflationary perturbations were considered in a renormalizable but non-unitary theory of gravity with the additional Weyl term. We obtained that ghost degrees of freedom do not spoil the inflation and the scalar perturbation amplitude at linear level even in a case of the ghost with mass smaller than Hubble parameter at inflation. The ghost impact to the density contrast was also estimated to be negligible for the range of masses allowed by Solar system tests. The non-linear level of the theory and its possible application was also discussed.