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Ghost dark energy model in the presence of a linear, sign-changeable interaction

E Ebrahimi and H Taghipour

Physics Faculty, Shahid Bahonar University of Kerman, Kerman, Iran

E-mail: ebrahimi@uk.ac.ir

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Abstract

In the present study, we consider the generalized ghost dark energy in the presence of a sign changeable interaction term capable of explaining the recent acceleration of the universe. We obtain different evolving parameters and plot them. We find a good agreement between the model and observations. The plots reveal that with decreasing b, the universe enters the acceleration phase earlier, while decreasing ξ leads a delay in the entrance to the acceleration phase. Next, we present a squared sound speed analysis and find that with increasing b, the model can achieve the positive domain for squared sound speed, showing the signs of stability. Finally, we discuss the *statefinder* analysis, showing that the

model can catch $\{r = 1, s = 0\}$ at the late time.

Keywords: cosmology, dark energy, interacting ghost dark energy, stability

For full article, refer to the Persian section