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DARK ENERGY FROM MODIFIED GRAVITY AND THE HOLOGRAPHIC PRINCIPLE

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The holographic dark energy could be interpreted as an infrared cut-off for modified gravity theories $f(R)$. In this approach, several reference modified gravity models can be analyzed, and a reconstruction method for different cosmological scenarios can be done. From the analysis of the autonomous system and the stability of perturbations to the dark energy sector, it was found that the forbidden gap $-7.6 < \omega_{eff} < -1.07$ present in $f(R)$ models is now allowed.

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