

Peer Review

Review of: "Parameterized Deceleration in $f(Q, C)$ Gravity: A Logarithmic Approach"

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This manuscript is devoted to some study of $F(Q,C)$ gravity and related cosmology. The authors consider some very easy observational bounds like the deceleration parameter, Hubble rate, EoS parameter, etc. In fact, it is rather easy to pass these bounds; really, they are not strong bounds but just choices of parameters. There are a number of points which are not addressed. The authors claim that $F(Q,C)$ is really a novel and important theory. At the same time, it is not so. There are many different modified gravities which easily pass much more complicated bounds. Why did the authors select this specific theory? They should give very strong motivation for that, including a brief comparison with different modified gravities (see reviews on modified gravity in Phys Repts). Moreover, they should give a much better comparison of observational bounds of Λ CDM with their theory, at least up to the point it has been in $F(R)$ gravity (see S Capozziello, D. Saez, etc.). Finally, it should be given proof that such theories as $F(R)$ or $F(G)$ gravity pass the solar system tests. These are major points for revision. The present version of the manuscript is not suitable for publication.

Declarations

Potential competing interests: No potential competing interests to declare.