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Recent Progress on Testing General Relativity at Cosmological Scales and Implications for Cosmic Acceleration

MUSTAPHA ISHAK, The University of Texas at Dallas, JASON DOSSETT, Queensland University, Australia, JACOB MOLDENHAUER, The University of Dallas — Cosmic acceleration can be caused by a cosmological constant/dark energy component in the universe or a modification to general relativity that takes effect at cosmological scales. An important question is to be able to distinguish between these two possibilities. I will report about some of our work on this topic including the framework developed and the results obtained using some recent available data sets. I will also report on our recent work to explore the robustness and decisiveness of this type of tests.

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