

Abstract Submitted
for the TSF13 Meeting of
The American Physical Society

Recent Progress on Testing General Relativity at Cosmological Scales and Implications for Cosmic Acceleration¹ 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.

¹Work supported by DOE.

Mustapha Ishak
The University of Texas at Dallas

Date submitted: 11 Sep 2013

Electronic form version 1.4