

Abstract Submitted
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Modified gravity and scalar fields: where should we look?

EMANUELE BERTI, University of Mississippi and California Institute of Technology — I will discuss how strong-field modifications of Einstein's general relativity can affect the structure of compact stars. I will also argue that generic scalar-tensor theories may have characteristic signatures in the gravitational-wave signal from compact binaries, that could be observable by Earth- and space-based gravitational-wave detectors.

Emanuele Berti
University of Mississippi and California Institute of Technology

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