

Facing the challenge of testing GR, and extensions, with gravitational waves

LUIS LEHNER

Perimeter Institute for Theoretical Physics, Waterloo, Ontario N2L 2Y5, Canada
CIFAR, Cosmology and Gravity Program, Toronto, ON M5G 1Z8, Canada
llehner@perimeterinstitute.ca

ABSTRACT

Exploiting gravitational waves to probe the underlying gravitational theory requires a thorough understanding of possible surprises in GR, as well as possible departures from it. In this talk i will discuss a few interrelated challenges in this task and ways to address them.