Personal notes on gravitational waves

Jose Perdiguero Garate

May 14, 2025

Contents

1   Chern-Simons gravity

Consider the Chern-Simons action coupled with the Einstein-Hilbert action is

$$S = \int \mathrm{d}^4 x \sqrt{-g}\, \mathcal{R} \tag{1}$$

2 Polynomial parity breaking

References