

Institut Henri Poincaré
11 rue Pierre et Marie Curie, 75231 Paris cedex 05
String Theory in Greater Paris

Rencontres Théoriciennes
“Supergravité, théorie des cordes et théorie M”

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David Mateos

U. Barcelona

Ads/cap

The discovery of gravitational waves has opened a new experimental window into the Universe. The fact that the relevant physics is often out of equilibrium offers a golden opportunity for holography to make a unique impact on cosmology and astrophysics. I will review recent progress in this direction, with a focus on cosmological phase transitions and neutron star mergers. I will also discuss a new holographic framework to describe strongly coupled matter coupled to dynamical gravity. If time permits I will mention applications to baryogenesis, thermal inflation and primordial black holes. No prior knowledge of string theory or holography required.

Institut Henri Poincaré, salle 314, 3^{ème} étage

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