28th Texas Symposium on Relativistic Astrophysics



Contribution ID: 53 Type: Talk

Late-time cosmology with eLISA

Wednesday 16 December 2015 16:15 (20 minutes)

In this talk I will consider the application of eLISA as a probe of the late-time cosmological expansion. In particular I will first review the concept of standard sirens and how these can be used to investigate the distant-to-redshift relation. I will then discuss the best strategies to obtain as many standard sirens as possible, taking into account what kinds of electro-magnetic counterparts could reasonably be detected and by which instruments. Finally, employing realistically simulated data, I will present the constraints we will be able to obtain on the cosmological parameters of LambdaCDM and dark energy models.

Author: TAMANINI, Nicola (CEA - France)

Co-authors: SESANA, Alberto (Birmingham University); CAPRINI, Chiara (CEA-Saclay); BARAUSSE, En-

rico

Presenter: TAMANINI, Nicola (CEA - France)

Session Classification: 11 - Gravitational waves