ID de Contribution: 9 Type: Non spécifié

Prototyping a LISA Global-fit Pipeline

lundi 20 novembre 2023 15:00 (15 minutes)

The LISA observation band is expected to be populated with various gravitational wave signals overlapping in time and frequency, making the individual treatment for each source impossible.

We present a global-fit pipeline to disentangle the merging massive black hole binaries (MBHB) and the inspiralling Galactic white dwarf binaries (GBs) present in the simulate one-year-long LISA data.

The pipeline consists of a kick-in step of speedy approximative MBHB signal reconstruction and an iterative Bayesian detection and parameter estimation step for GBs, MBHBs as well as inference of the noise model.

Auteurs principaux: SARTIRANA, Andrea (CNRS); LE JEUNE, Maude (APC); DENG, Senwen (APC); BABAK, Stanislav (APC); MARSAT, Sylvain (L2I Toulouse, CNRS/IN2P3, UT3); PLAGNOL, Éric (APC)

Orateur: DENG, Senwen (APC)

Classification de Session: Session 2