

An L0L2 demonstrator pipeline for LISA

lundi 20 novembre 2023 17:00 (15 minutes)

I will describe the L0-to-L2 demonstration pipeline developed in order to address the FMT task 4.5 activity of LISA. The main goal of this activity is to show that it is possible to build a complete data analysis pipeline capable of generating L1 and L2 products from L0.5 data. The L0.5 to L1 step mainly includes on-ground processing that performs noise reduction, calculates pseudo-range estimates, TDI and clock synchronization. The L1 to L2 step consists of source parameter estimation using Bayesian parameter estimation with nested sampling. In this work we restrict the analysis to a single galactic binary.

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Classification de Session: Session 3