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First level characterisation the stochastic foreground signal of the LISA mission

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The ESA LISA mission, is going to fly in the early 2030s, and it is going to be the first Gravitational Wave observatory in space. In contrast to the present ground based detectors, LISA is going to be a signal-dominated laboratory. This means that we expect that the data-stream will be populated with gravitational wave signals overlapping in time, and in frequency. In addition, different astrophysical population models, predict a type of signal that would generate a confusion foreground noise. In this work, we present a generic method which aims to characterise the foreground signals originating from different types of sources. Assuming idealised detector conditions, we apply an iterative procedure which allows us to predict the different levels of foreground noise, after subtracting the sources with higher SNR than a given threshold.

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Auteurs: Dr KARNESIS, Nikolaos (APC Paris);   BABAK, Stanislav (APC)

Orateurs: Dr KARNESIS, Nikolaos (APC Paris);   BABAK, Stanislav (APC)

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