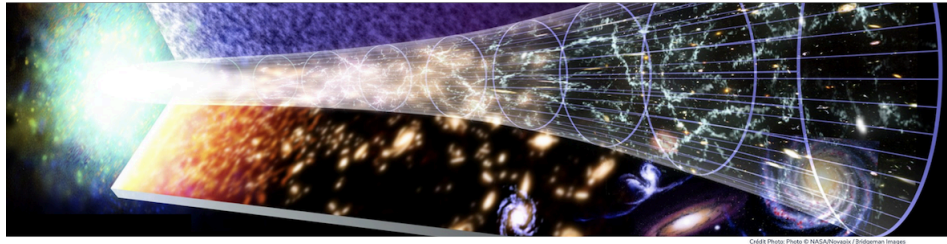


## Kick-off du GDR CoPhy



ID de Contribution: 32

Type: Non spécifié

## Fast and accurate halo model computation with `class_sz`

*mercredi 18 janvier 2023 14:30 (5 minutes)*

`Class_sz` (Bolliet et al) is a code built on `Class` (Lesgourgues et al) which enables to compute nearly all cosmological power spectra relevant to upcoming CMB and LSS surveys (tsz and ksz, lensing, galaxies, CIB), including cross-correlations and cluster counts for SZ surveys. It is being used in the developpement of pipelines within the Atacama Cosmology Telescope and Simons Observatory. I propose to present the overall architecture of the codes and show different computation, as well as presenting how to interface it with `cosmopower` (Spurio-Mancini et al) for machine learning emulation. This would be a talk for the Tools and Methodology Working Group.

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