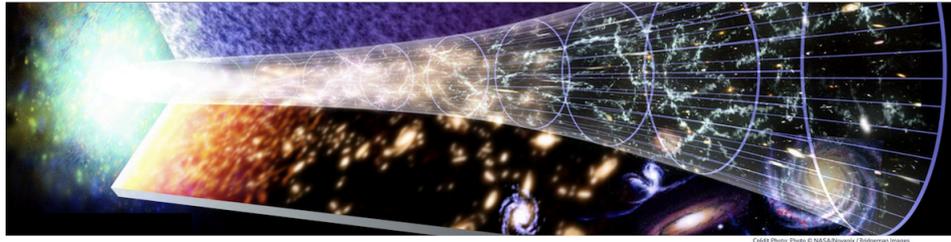


## Kick-off du GDR CoPhy



Contribution ID: 32

Type: **not specified**

# Fast and accurate halo model computation with `class_sz`

*Wednesday, January 18, 2023 2:30 PM (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.

**Presenter:** BOLLIET, Boris (Cambridge University)