

Baryons in the Universe 2024



Contribution ID: 20

Type: **not specified**

An SZ view of baryons in cosmic web

Tuesday, 9 April 2024 10:55 (25 minutes)

The Large scale Structure of the Universe is organised in a cosmic web made of nodes, filaments, walls and voids, and is well traced by the distribution of galaxies. This filamentary structure, detected in galaxy surveys, contains the majority of baryons in the form of hot and warm gas components. The use of the Sunyaev-Zeldovich (SZ) signal measured by the Planck satellite over the whole sky is used to study these large structures of the Universe. In particular by combining the SZ signal which probes the gas and the distribution of galaxies, we can address the challenging task of characterising the LSS, its composition and the interplay between baryons.

Presenter: AGHANIM, Nabila