

Cosmic Magnetism in Voids and Filaments



Contribution ID: 58

Type: **not specified**

Simulations of the Synchrotron Cosmic Web

Tuesday, 24 January 2023 17:00 (20 minutes)

We present a part of the Simulating the LOcal Web (SLOW) project consisting of a cosmological non-radiative MHD simulation of a $500 \text{ Mpc } h^{-1}$ box including the spectral Cosmic Ray (CR) model presented in Böss et. al. (2022). I will briefly introduce the solver and show its application to predicting synchrotron emission from cosmic web filaments and accretion shocks around clusters, as well as implications of different magnetic field models on this emission.

Presenter: BÖSS, Ludwig (University Observatory Munich)

Session Classification: Tuesday