

Cosmic Magnetism in Voids and Filaments



Contribution ID: 56

Type: **not specified**

Illuminating the magnetised cosmic web (online)

Tuesday, 24 January 2023 16:10 (20 minutes)

Radio-loud AGN can be observed throughout the majority of the history of the Universe and are thus excellent beacons for measuring the properties of the cosmic web and their evolution. In this talk, I will highlight recent results from the Low Frequency Array (LOFAR) telescope that use the effect of Faraday rotation to measure the evolution of the magnetic field strength in the filaments and voids of the cosmic web. Comparing this evolution with predictions from cosmological numerical simulations already enables us to distinguish between different scenarios for the origin of cosmic magnetism.

Presenter: O’SULLIVAN, Shane (Dublin City University)

Session Classification: Tuesday