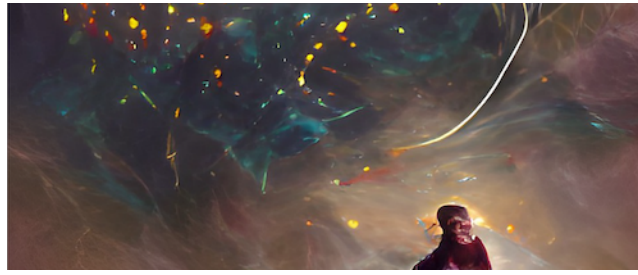


Cosmic Cartography 2022: Exploring the Cosmic Web and Large-Scale Structure



Contribution ID: 8

Type: **not specified**

Cosmic metals and missing baryons in EAGLE filaments

Monday, 7 March 2022 17:00 (20 minutes)

With the use of the EAGLE simulation, I will present the spatial and thermal distribution of the baryons within the filaments of the Cosmic Web. In particular, I will characterise the properties of the hottest ($\log T(\text{K}) > 5.5$) Warm-Hot Intergalactic Medium (WHIM), which remains largely undetected and is a candidate to solve the cosmological missing baryons problem. Due to its high temperature, the hot WHIM can be traced by OVII absorption in the X-ray range. For this end, I will introduce observation predictions for future X-ray instruments.

Presenter: TUOMINEN, Toni (Tartu observatory, University of Tartu)

Session Classification: Day 1 Afternoon