## Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



Contribution ID: 6

Type: not specified

## Missing Baryons at all Astronomical Scales: current evidence and future prospects

Monday, 19 May 2014 10:15 (25 minutes)

Baryons are missing at all astronomical scales in the Universe, from galaxies to the large scales of structure formation and the Universe as a whole. Hydro-dynamical simulations for the formation of structures, tend to re-concile the different "missing-baryon" problems and predict that most of the baryonic matter of the Universe is hiding in a hot and tenuous gaseous phase, surrounding virialized structures and more at large in the low-redshift inter-galactic space.

Here I will first summarize the current state of the art and show the current evidence of such matter in the local Universe, and will then focus on the short- and long-term future prospects for such a rich and still relatively unexplored field of research.

Primary author:NICASTRO, Fabrizio (INAF - OAR)Presenter:NICASTRO, Fabrizio (INAF - OAR)Session Classification:Astrophysics/Cosmology