

Our Universe at Intergalactic Scales

Dr. **Matteo Viel** (INAF-OATS, Trst) bo predaval o medgalaktični snovi in njenem pomenu za kozmologijo v **torek**, 30. 10. 2012, **ob 14. uri v predavalnici F6 na FMF**, Jadranska 19, Ljubljana. Vabljeni!

Prejšnja predavanja so na razpolago na spletni strani [Astrodebata](#). Predavanje bo v angleščini!

Povzetek predavanja:

I will discuss the cosmological importance of the matter that is filling the space between galaxies: the Intergalactic Medium (IGM). I will focus on three IGM-related issues: its role as a tracer of the large scale structure; how it can be used to constrain fundamental physical properties (nature of dark matter, variation of fundamental constants and more importantly neutrino masses); its relationship with the galaxy formation process.

The results are based on high and low resolution Lyman-alpha forest quasar spectra (BOSS/SDSS-III and VLT/UVES) and state-of-the-art hydrodynamic simulations.