

**Proponente:** Giuseppe Longo (longo@na.infn.it) (In collaboration with Fermi Institute)

**Titolo:** “N-point correlation functions with photometric redshifts”

**Descrizione:** among the most powerful cosmological indicators there are correlation functions which parametrize the distribution of barionic matter in the universe. These functions are usually derived from spectroscopic redshift surveys which even though more accurate than photometric redshift ones provide much less statistics. The student shall use the Sloan Digital Sky Survey photo-z estimates to derive 2 and 3 point correlation functions and shall compare his findings with the predictions of different cosmological models.