Università degli Studi di Trieste

Dipartimento di Fisica Seminario

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INAF

Thursday, May 3, 4.00 PM – Lecture Room A, F building, Dip. di Fisica – via Valerio 2 – Trieste

The South Pole Telescope (SPT) cluster survey and its cosmological implications.



The 10-meter South Pole Telescope (SPT) is a millimeter wavelength telescope designed to conduct sensitive measurements of the cosmic microwave background (CMB) at arc-minute resolution. The SPT has successfully conducted a 2500 square degree survey to find clusters of galaxies from their distortion of the CMB, known as the Sunyaev-Zel'dovich (SZ) effect. The surface brightness of the SZ effect is redshift independent which allows a SZ

survey to provide a nearly mass limited cluster sample out to the earliest epochs of cluster

formation. The SPT has identified ~700 of cluster candidates. Of these, ~500 have been optically confirmed, with the majority being newly discovered clusters at z>0.5. I will summarize the main results from the SPT cluster survey, including cosmological constraints from their measurement of the growth of structure.



Organizzazione a cura di: S. Borgani, E. Vesselli







Everyone interested in the topic is welcome to attend

Informazioni: seminari@ts.infn.it