

XXIX-th International Workshop on High Energy Physics: NEW RESULTS
and ACTUAL PROBLEMS in PARTICLE & ASTROPARTICLE PHYSICS and
COSMOLOGY



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Panel discussion on Cosmology

Friday, 28 June 2013 17:20 (1 hour)

Moderator:

E. Anderson

Panelists:

A. Mitra

V. Rubakov

A. Dolgov

S. Crothers

A. Zakharov

Questions:

Discussion VI.

- To what extent Dark Matter and Dark Energy are necessary to explain the observed properties of the Universe?
- Why the Dark matter profiles so universal at the galactic scales?
- Are there viable candidates of modified gravitational dynamics to exclude the dark components of Universe?
- Have we any perspectives to distinguish the Dark Energy from the cosmological constant?
- Are there any certain indications for the sterile neutrinos in the cosmos?
- How does the Planck data change the view to the inflation of early Universe? What is an origin of inflaton plateau? So far, what else is interesting about the Planck data?
- What are nearest crucial points in cosmological observations?
- Can we be more decisive discriminating between anthropic principle, super-stringy landscape, fine tuning or dynamics as concerns for the cosmological coincidences?

Presenter: ANDERSON, Edward (Cambridge Univ., DAMTP, UK)

Session Classification: Evening session

Track Classification: Dark matter & dark energy