

XXX-th International Workshop on High Energy Physics “Particle and Astroparticle Physics, Gravitation and Cosmology: Predictions, Observations and New Projects”



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Panel discussion on Cosmology

Friday 27 June 2014 17:00 (55 minutes)

Moderator: Valery Kiselev

Panelists: Yuri Baryshev, Alex H. Blin, Luca Marzola, Alexander Dolgov, Modestov Konstantin, Chugreev Yury, Vladimir Sokolov

Questions:

1. Is there a conflict of BICEP2 data with the PLANCK measurements on the relic gravitational waves generated during the Universe inflation?
2. Do sterile neutrinos with the mass about 0.5 eV really relax PLANCK constraints on both the amplitude of tensor modes of inhomogeneity and Hubble rate?
3. Why the dark matter particles are still not detected in conflict with direct expectations of cosmological models?
4. The baryogenesis is dead, the leptogenesis is prospective, isn't it?
5. Are there crucial astrophysical observational tests which can distinct between alternative cosmological models?
6. Is it possible that observations of the large scale spatial galaxy distribution will change the SCM paradigm?
7. How does Feynman's field gravity approach change predictions for observational effects in relativistic astrophysics?

Session Classification: Theoretical and observational cosmology