

Physics Colloquium

"Landau and Ginzburg" remove tensions between "Planck" and "Hubble and Lyman"

Speaker

N. Khosravi

Affiliation

Shahid Beheshti University & IPM

Date and time

Wednesday, 15th of Esfand (6th of March), 4:30 pm

Place

Lecture room C, Farmanieh building

Abstract

In this talk, I will review the tensions in standard cosmology. These are temporal tensions e.g. present Hubble parameter H_0 , time evolution of Hubble parameter $H(z)$ and BAO distances around $z=2.5$ as well as spatial anomalies e.g. CMB dipole, quadrupole and octopole alignment and ...

Then I will study a new model of dark energy based on Landau-Ginzburg idea for the phase transition. I will show that this model can remove H_0 and Lyman-alpha BAO tensions. More interestingly, our model provides a natural framework to study the spatial anomalies of CMB. Up to our knowledge it is unique for this reason.

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