

(Cosmological) Tensions and (Theoretical) Possibilities

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Date and time: Wednesday, 22nd of Azar (13th of December), 4:30 pm

Place: Farmanieh builing, lecture room C


Abstract:

Why a unique theoretical model should explain the nature? To answer this question, I introduced the idea of “ensemble average of models” (of gravity). I apply this idea to the space of all analytical functions of Ricci scalar to a new model of gravity dubbed as “uber-gravity”. I will review universal properties of uber-gravity. For the next part of my talk, I will study the cosmology of our model, “uLCDM”, which has two phases: the early phase is standard LCDM while the late phase is constant Ricci scalar phase. I will show how this (phase) transition may address few tensions between early and late universe observations with focusing on H_0 -tension.

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