KMI Colloquium

Does the H_0 tension suggest a new physics?



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Wednesday, 27 January, 17:00 – Online (Zoom)

Abstract :

The Hubble-Lemaître constant H_0 is one of the most important cosmological parameters, however it is now widely argued that there is a tension between the value of H_0 measured by cosmic microwave background and the one obtained from local direct measurements, which is called the H_0 tension. First I briefly review the current status of the tension, and then discuss the attempts to solve it, particularly focusing on its implications to new physics. I also argue that the tension can also give an impact on other cosmological issues

such as cosmological bound on neutrino masses. Some general conditions to solve the

tension are also to be discussed.



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