

PRISMA+ Colloquium

Feb. 8, 2023 at 1 p.m.
Lorentz-Raum, 05-127, Staudingerweg 7

Prof. Dr. Julien Lesgourgues
Aachen

Hubble tension and possible theoretical solutions

Cosmologists are puzzled by a tension between the results of two categories of observations, which has been growing over the past few years. This "Hubble tension" arises from contradictory indications concerning the current expansion rate of the universe. The referent will try to give a pedagogical overview of this problem, with a summary of the physical assumptions that go into the interpretation of each observation. Then, assuming that the tension persists with future data releases, he will give examples of the kind of new fundamental physics that could help solving it.