

## Hubble Tension challenge in the modern cosmology: possible solutions

*Tuesday, 13 June 2023 15:30 (30 minutes)*

One of the problems in the modern cosmology is a so-called Hubble tension (HT), which is the difference between values of the present Hubble constant  $H_0$ , measured by observation of the universe at redshift  $z \leq 1$ , and the same value measured by observations of a distant universe by observations of CMB fluctuations corresponding to  $z \approx 1100$ . We suggest that this Tension may be explained by deviation of the cosmological expansion from a standard  $\Lambda$ CDM model of a flat universe, due to the action of an additional variable component DEV during the post-recombination stage.

In order to maintain the almost constant DEV/DM energy density ratio during the whole time interval at  $z < 1100$ , it is necessary to allow the existence of a wide mass DM particle distribution.

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**Session Classification:** Tuesday afternoon session