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## **Update on anomalies and cosmological tensions from the latest data sets**

*Monday, 8 July 2024 15:30 (30 minutes)*

The persistence in some of the tensions and anomalies that affect the standard model of cosmology, like the  $H_0$ -tension, the  $\sigma_8$ -tension and the lensing anomaly, has motivated the study of alternative models capable of dealing with them. We re-analyze some of the most common extensions of the  $\Lambda$ CDM model in addition to other more theoretically motivated models in light of different combinations of the most recent data sets, including the Planck PR4 and the DESI BAO 2024, in order to see whether it is possible to alleviate the tensions aforementioned. The use of statistical criteria allows us to compare the performance of the different models under study.

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**Session Classification:** Current status of the  $H_0$  and growth tensions: theoretical models and model-independent constraints

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