Contribution ID: **123** Type: **Regular plenary talk**

Astrophisical tracers of the late Universe expansion

Thursday, 20 February 2025 16:55 (15 minutes)

The expansion of the Universe at relatively small distances (up to redshifts about 9) can be measured with individual astrophysical sources. I will shortly list those types sources and the used techniques to determine the distance for each individual source. I will present the results of our group based on measurement of the time delays in quasars, and I will discuss the issue of the extinction in the context of comparing radius-luminosity relation distances with distances based on UV-X-ray relation in the same sample of quasars. I will shortly summarize the future prospects in the context of Vera Rubin Observatory and planned LSST.

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Session Classification: Multiwavelength Surveys & CMB

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