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Time-delay cosmography: the present and the future

Thursday, 8 July 2021 17:30 (20 minutes)

The arrival time delays of multiply imaged strong gravitationally lensed sources provides a one-step cosmological distance measurement. The methodology, known as time-delay cosmography, rose to prominence to provide precise measurements of the Hubble constant, independent of the local distance ladder and the cosmic microwave background. I introduce the methodology and key ingredients, as well as possible systematics. I will then highlight the progress made in the last decade, present the recent results obtained, and present an outlook in the near future.

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