

Winter Meeting 2025



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Strong lensing time delays and the Hubble tension

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The Hubble parameter, H_0 , is one of the key parameters of the current cosmological model. But its value measured from the Cosmic Microwave Background in the early (distant) universe, differs from the value measured directly in the late (local) universe. Obviously, as all measurements are done in the same universe, they should be the same: any difference, a.k.a. tension between the early and late universe values may point to cracks in the cosmological model. But is the tension real or is it due to observational effects? I will show how strong gravitational lensing can help address the issue, independently of any other cosmological probe.

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