



Contribution ID: 92

Type: **Invited/Solicited talk in mini-symposium**

## Cosmology with Strongly Lensed Supernovae

*Tuesday, December 12, 2023 1:40 PM (25 minutes)*

An intriguing tension in the measurements of the Hubble constant  $H_0$ , which sets the expansion rate of the Universe, has emerged in recent years. Independent determinations of  $H_0$  are important to assess the tension, which if verified, would imply new physics beyond the standard cosmological model. I will illustrate strong gravitational lenses with measured time delays between the multiple images as a way to measure  $H_0$ . Exciting discoveries of the first strongly lensed supernovae offer new opportunities for measuring  $H_0$ , and I will present recent advances. I will show the bright prospects of lensed supernovae as an independent and competitive cosmological probe.

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**Session Classification:** Gravitational Lensing