

---

# The SHERA Mission

Gautam Vasisht\*<sup>1</sup>

<sup>1</sup>Jet Propulsion Laboratory – United States

## Abstract

The SHERA (Search for Habitable Exoplanets using Relative Astrometry) concept, a possible small explorer mission, aims to achieve microarcsecond-level relative astrometry on binary star systems using a diffractive pupil telescope, drawing inspiration from the TOLIMAN concept. In this presentation, I will outline our ongoing efforts to push the boundaries of technology and replicate these precise measurements in laboratory conditions.

---

\*Speaker