



Contribution ID: 231

Type: **Invited talk in the parallel session**

## Type Ia Supernovae: Astrophysics and Cosmology

*Monday, 5 July 2021 16:30 (20 minutes)*

I will review current cosmological applications of Type Ia Supernovae (SN Ia) to measure the Hubble constant and constrain the nature of dark energy, with an emphasis on the limiting factors in these measurements. I will describe how near-infrared observations of SN Ia provide an alternate path for future supernova cosmology. Astrophysical systematic uncertainties arise from our lack of detailed understanding of the progenitors and explosion physics of SN Ia, and I will explore their potential implications for current and future surveys.

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**Session Classification:** White Dwarf Explosions

**Track Classification:** White Dwarfs: White Dwarf Explosions