



Contribution ID: 87

Type: **not specified**

A New Era of Precision Cosmology using Multi-Messenger Observations

Tuesday 30 November 2021 15:00 (1h 20m)

The discovery of astrophysical gravitational waves has opened a new avenue to explore the cosmos. I will discuss a few new frontiers in the field of physical cosmology and fundamental physics that can be explored using the LIGO-Virgo-KAGRA network of gravitational wave detectors. I will elucidate how the synergies between electromagnetic probes and gravitational wave probes will play a key role in developing a data-driven model of cosmology in the near future.

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