



Contribution ID: 1206

Type: **Parallel Talk**

Multi-messenger studies with DESI

Saturday, 9 July 2022 12:15 (15 minutes)

The synergy between gravitational wave (GW) experiments and large galaxy surveys such as the Dark Energy Spectroscopic Instrument (DESI) is most prominent in the standard siren method, which has already enabled several measurements of the Hubble Constant. A standard siren analysis was performed using the only GW event with an electromagnetic counterpart, GW170817, for the first time. We have later extended the analysis to compact object binary merger events without counterpart using DESI galaxy catalogs, for which I will present the latest results. I will also present efforts and plans to follow-up gravitational wave events and IceCube high-energy neutrino events with DESI.

In-person participation

Yes

Primary author: Dr PALMESE, Antonella (Fermilab)**Presenter:** Dr PALMESE, Antonella (Fermilab)**Session Classification:** Astroparticle Physics and Cosmology**Track Classification:** Astroparticle Physics and Cosmology