

# Luminosity of the darkness

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Dark siren measurement of Hubble constant is one of the most exciting results in the multimessenger astronomy. Currently, the uncertainty of this measurement is dominated by the unknown gravitational wave events population. However with more events and better sensitivity of detectors, the uncertainty will shrink, therefore it is important to study impact of uncertainties from different sources, especially from electromagnetic side of the measurement. In my talk I will focus on the unknown distribution of luminosity of galaxies that are out of reach of our telescopes - the luminosity of the darkness. I will focus on its impact on galaxy distributions and on Hubble constant measurement.

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