

Multimessenger astrophysics with gravitational waves

Less than two years ago, GW170817 brought the beginning of the era of multimessenger astrophysics with gravitational waves. In this talk I will give an overview of the unique opportunities, as well as the unique challenges, of multimessenger astrophysics. I will discuss the novel insights GW170817 has given us with an emphasis on results made possible thanks to the multimessenger nature of the signals we received. Finally, I will discuss recent results from the third observing run of the advanced detectors as well as future prospects as the network of gravitational wave detectors improves in sensitivity and expands in number.