

SEARCH FOR GRAVITATIONAL WAVES WITH SHORT TIME DURATION IN THE ADVANCED LIGO AND VIRGO

The second observing run of Advanced LIGO and Virgo ended in August 2017 and included the detection of several coalescences. The third observation run is starting in Spring 2019 and foresees the prompt release of public alerts in case of detection of GW transients. We report the results of a general search for gravitational waves using minimal assumptions on the waveforms and sensitive to a wide range of transient sources. The analysis includes the O2 results of three different algorithms over the frequency from 32 to 4096 Hz targeting signals with duration up to seconds. We will also overview the low-latency search for short-duration transients in the O3 run and any event candidates that have been reported in public alerts.