

Abstract Submitted
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All-sky search for gravitational wave bursts with LIGO, GEO and Virgo MICHELE ZANOLIN, E. KATSAVOUNIDIS, MIT, LIGO SCIENTIFIC COLLABORATION¹, VIRGO COLLABORATION² — The network of gravitational-wave detectors LIGO, GEO and Virgo collected data of unprecedented sensitivity in their 2005-07 science runs. Using data from these runs, we describe the search for bursts: short-duration gravitational-wave signals with unknown or poorly modeled waveforms. Such signals, may accompany astrophysical events like core-collapse supernovae, the merger phase of coalescing binary compact stars and gamma-ray bursts (GRBs). In this talk we focus on the all-sky search of such signals with frequency content in the 64-2000Hz range- this encompasses the most sensitive regime of the ground-based interferometers.

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