

Abstract Submitted
for the NES09 Meeting of
The American Physical Society

All-sky search for gravitational wave bursts with LIGO, GEO and Virgo LINDY BLACKBURN, LIGO-MIT, LIGO SCIENTIFIC COLLABORATION AND VIRGO COLLABORATION — 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 and arbitrary in shape gravitational-wave signals. 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 64–2000 Hz range – this encompasses the most sensitive regime of the ground-based interferometers.

Lindy Blackburn
LIGO-MIT

Date submitted: 10 Apr 2009

Electronic form version 1.4