

Abstract Submitted
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GRB-triggered searches for gravitational waves from compact binary inspirals in LIGO and Virgo data during S5/VSR1 NICKOLAS FOTOPOULOS, University of Wisconsin-Milwaukee, LIGO SCIENTIFIC COLLABORATION, VIRGO COLLABORATION — We describe a search for the gravitational-wave inspiral signatures of short gamma-ray bursts (GRBs) in LIGO and Virgo data taken during a two-year span that began in September 2005. The GRB community largely believes that most short GRBs are produced by the merger of two neutron stars or of a neutron star with a black hole. In their final orbits, such systems would produce strong gravitational waves. Through the efforts of electromagnetic astronomers, we know the time and sky location of these events, so we can search gravitational-wave data with a lower threshold than previous, untriggered searches.

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