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The RIDGE pipeline as a method to search for gravitational waves associated with magnetar bursts JASON LEE, Andrews University, SHANTANU DESAI, Penn State University, KAZUHIRO HAYAMA, SOUMYA MOHANTY, University of Texas, Brownsville, MALIK RAKHMANOV, Southeastern Louisiana University, TIFFANY SUMMERSCALES, Andrews University — RIDGE is a data analysis pipeline which implements a regularized, coherent approach to search for short-duration gravitational wave signals in the data from a network of gravitational wave detectors. We discuss the RIDGE pipeline and describe its potential in the search for gravitational waves associated with soft gamma repeaters (SGRs) and anomalous X-ray pulsars (AXPs). SGRs and AXPs are thought to be the result of seismic events in the crust of a magnetar (a neutron star with a strong magnetic field) which should produce short bursts of gravitational waves.

Prefer Oral Session
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