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A Semi-Coherent Directed Search for Continuous Gravitational Waves from Supernova Remnants in the LIGO O3 Data Set JONATHAN WANG, KEITH RILES, University of Michigan, LIGO COLLABORATION — The LIGO-VIRGO Collaboration looks for gravitational waves originating from a broad spectrum of celestial sources. Included among these sources are neutron stars exhibiting non-axisymmetric rotation, which produce long-lived, well-defined, and roughly monochromatic gravitational waves, or continuous waves. Various search methods are used by the LVC when looking for continuous waves based on what prior information is known about the source. Here we describe the use of the Weave implementation of a semi-coherent templated search method using the F-statistic to look for continuous waves in O3a data.

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