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Searches for continuous gravitational waves from young supernova remnants in the early third observing run of Advanced LIGO and Virgo

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Theories predict continuous gravitational waves may be emitted by rotating neutron stars. We present the results of three wide-band directed searches for continuous gravitational waves from young supernova remnants in the first half of the third Advanced LIGO and Virgo observing run. Using three complementary analysis pipelines, we search fifteen young supernova remnants between 10 Hz and 2 kHz. Each pipeline is optimized for a different signal model, allowing us to search a wider range of physical models than previous analyses.

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Session Classification: Sources of Gravitational Waves

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