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Progresses on targeted searches for gravitational waves emitted by Core-Collapse Supernovae

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We present a case study on archival open GW data to test new methodological improvements in targeted searches for gravitational-wave transients associated with core-collapse supernovae. The study involves core-collapse supernovae optically observed within 30 Mpc during the third observing run of Advanced LIGO and Advanced Virgo. We report the detection efficiency and the distance range for various models of gravitational-wave emissions.

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