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Tran-spectral searches for transient radio pulses and gravitational waves MEGAN TORPEY, The College of New Jersey — The detection of radio wavelength transients from astrophysical sources can provide external triggers for gravitational wave (GW) searches within LIGO/Virgo data. There are a variety of sources of GWs that should also produce a radio transient, such as compact object inspirals and mergers, core- collapse super- novae, and the cusps or kinks of superconducting cosmic strings. Radio polarization and spectral information can help distinguish among candidate sources. Such a pulse may be detected by a transient radio array such as the Eight-meter-wavelength Transient Array (ETA). I will present details of an ongoing effort to perform a trans- spectral comparison between data from gravitational wave detectors and radio transient arrays.

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