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Gamma-ray bursts and gravitational waves

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Gamma-ray bursts arise from at least two distinct progenitor channels, the collapse of massive stars, and the merger of two compact objects. While both may plausibly yield detectable gravitational wave emission, compact object mergers represent the best prospects for joint electromagnetic and gravitational wave detections in the near-term future. I will review the evidence linking both short- and some long-duration gamma-ray bursts to compact object mergers, discuss how joint GW-EM searches for GRBs may be optimized, and look at additional routes for enhancing the detectability of both GRBs and their multiwavelength counterparts in coincidence with gravitational wave events.

Primary author: LEVAN, Andrew

Presenter: LEVAN, Andrew

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