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Constraining transients with BPASS

Tuesday, 10 February 2026 14:00 (20 minutes)

Over the last 20 years the Binary Population and Spectral Synthesis code has been used to constrain transients through multiple comparisons between theory and observations. For example, resolved supernova progenitors, long-GRB afterglow properties, resolved and unresolved stellar population at supernova and kilonova sites, synthetic supernova lightcurves, and gravitational wave transient rate and Chirp mass distributions. I will briefly overview these results and present the combined picture that we begin to put together and importantly identify which areas we need to work on more.

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