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A method for a Search for Inspiral Merger and Ringdown Spin Aligned Waveforms using NINJA2 Mock Data Sets and gstlal MELISSA FREI, University of Texas at Austin, LIGO COLLABORATION, NINJA2 COLLABORATION — Compact binary coalescing systems, that is binary neutron stars, neutron star black hole pairs and binary black hole systems, rep- resent promising candidates for gravitational wave first detection and have the potential to provide precise tests of the strong-field predictions of general relativity. Observations of BBH systems will provide a wealth of information relevant to fundamental physics, astrophysics and cosmology. The search for such systems is a major priority of the Laser Interferometer Gravitational-Wave Observatory's (LIGO) and Virgo collaborations. A major area of research is incorporating black hole spin into binary black hole searches. In this talk, I will discuss a possible search for the gravitational waves produced by the inspiral, merger and ringdown of spin-aligned BBH systems using a new pipeline called gstlal and the preliminary results of a test search on mock data produced by the Numerical Injection Analysis Two (NINJA2) collaboration.

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