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Reconstructing dynamics and masses from gravitational waveforms

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Whilst gravitational waves from compact binary signals are well modelled, other transient signals do not necessarily have a clearly defined waveform. Searches for these kinds of signals are often un-modelled so do not say much about the system that produced the gravitational wave. Having a method that can extract some information on the structure and dynamics of the system could be crucial in quickly finding or creating a model for that system. Here we use a normalising flow to reconstruct the masses and dynamics of the system that produced a given gravitational waveform.

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