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Article: The role of binaries in gravitational wave production

PHY 600 Reading Questionnaire

What is the main idea of the article?

- Compact binaries are the most LIGO candidates.
- Supernovae are also candidates but are expected to be detected above 1000 Hz, depending on observability.
- Should construct a detector that can measure $h \sim 10^{-22}$ below 1000 Hz unless it's cheap to make one relatively sensitive up to 10 kHz.

Why is this topic important to gravitational wave detection?

- It lays the groundwork for the design of low detectors to come.
 - ↳ easily due to the LIGO design

What questions would you need to have answered before you could honestly say that you understand this topic?

- What is the Roche separation?
- Don't remember if we already talked about this, but what is LFO?
- How could we be answering such an important question w/ small number statistics?