Figure 2. from The Role of Core-collapse Physics in the Observability of Black Hole Neutron Star Mergers as Multimessenger Sources
http://dx.doi.org/10.3847/2041-8213/abf42c
© 2021. The American Astronomical Society. All rights reserved.

The figure shows a comparison of different scenarios for the observability of black hole neutron star mergers as multimessenger sources. The scenarios are labeled as STANDARD, FULL-ECSN-KICK, and NO-BH-KICK, each with different neutron star radii ($R_{NS}$) represented by different symbols: $	riangle$ for $R_{NS} = 11$ km, ■ for $R_{NS} = 12$ km, and ● for $R_{NS} = 13$ km.

The y-axis represents the merger rate in units of $[\text{yr}^{-1}]$ and the x-axis represents the fraction of first born neutron stars ($f_{\text{first born NS}}$) for different neutron star cooling timescales: Rapid, Delayed, and N20.