

Local merging NS-BH rate

Rate [$\text{Gpc}^{-3} \text{yr}^{-1}$]

10^{-3}

10^{-2}

10^{-1}

10^0

10^1

10^2

10^3

10^4

10^5

Gravitational waves

Isolated binary evolution

Chemically homogeneous evolution

Population III stars

Triples

Globular clusters

Nuclear star clusters

Young/Open stellar clusters

10^{-3}

10^{-2}

10^{-1}

10^0

10^1

10^2

10^3

10^4

10^5

Rate [$\text{Gpc}^{-3} \text{yr}^{-1}$]

GWs: masses like detections, Abbott et al. (2021)

GWs: broad mass distribution, Abbott et al. (2021)

Olejak et al. (2021)

Dominik et al. (2015)

Boco et al. (2019)

Klencki et al. (2018)

Baibhav et al. (2019)

Kruckow et al. (2018)

Roman-Garza et al. (2021)

Artale et al. (2019)

Giacobbo and Mapelli (2020)

Santoliquido et al. (2020)

Mapelli and Giacobbo (2018)

Santoliquido et al. (2021)

de Mink and Belczynski (2015)

Neijssel et al. (2019)

Chruslinska et al. (2019)

Eldridge et al. (2019)

O'Shaughnessy et al. (2010)

Belczynski et al. (2020)

Ghodla et al. (2021)

Giacobbo and Mapelli (2018)

Mennekens and van Beveren (2014)

Broekgaarden et al. (2021)

Tang et al. (2020)

Marchant et al. (2017)

Belczynski et al. (2017)

Fragione and Loeb (2019)

Hamers and Thompson (2019)

Arca-Sedda et al. (2020)

Clausen et al. (2013)

Ye et al. (2020)

Arca-Sedda et al. (2020)

Wang et al. (2020)

Petrovich and Antonin et al. (2017)

Stephan et al. (2019)

McKernan et al. (2020)

Ziosi et al. (2014)

Rastello et al. (2020)

Santoliquido et al. (2020)