# Local merging NS-NS rate

**Rate [$\mathbf{Gpc^{-3}\,yr^{-1}}$]**

$10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$

**Gravitational waves**
- GWTC-2, Abbott et al. (2020f)

**Short gamma-ray bursts**
- Coward et al. (2012)
- Petrillo et al. (2013)
- Fong et al. (2015)
- Della Valle et al. (2018)
- Jin et al. (2018)
- Zhang et al. (2018)
- Dichiara et al. (2020)

**Kilonovae**
- Jin et al. (2016)
- ATLAS: Smartt et al. (2017)
- PTF: Kasliwal et al. (2017)
- DES: Doctor et al. (2017)
- DLT40: Yang et al. (2018)
- ZTF: Andreoni et al. (2021)

**Galactic double neutron stars**
- O'Shaughnessy et al. (2009)
- Kim et al. (2015)
- Pol et al. (2020)

**Isolated binary evolution**
- O'Shaughnessy et al. (2010)
- Mennekens and van Beveren (2014)
- de Mink and Belczynski (2015)
- Dominik et al. (2015)
- Belczynski et al. (2018)
- Chruslinska et al. (2018)
- Giacobbo and Mapelli (2018)
- Klencki et al. (2018)
- Kruckow et al. (2018)
- Mapelli and Giacobbo (2018)
- Vigna-Gomez et al. (2018)
- Artale et al. (2019)
- Baibhav et al. (2019)
- Boco et al. (2019)
- Chruslinska et al. (2019)
- Eldridge et al. (2019)
- Neijssel et al. (2019)
- Belczynski et al. (2020)
- Giacobbo and Mapelli (2020)
- Tang et al. (2020)
- Ghodla et al. (2021)
- Olejak et al. (2021)
- Santoliquido et al. (2021)

**Triples**
- Hamers and Thompson (2019)

**Globular clusters**
- Lee et al. (2010)
- Bae et al. (2014)
- Samsing et al. (2014)
- Belczynski et al. (2018)
- Ye et al. (2020)

**Nuclear star clusters**
- Antonini and Perets (2012)
- Petrovich and Antonini (2017)
- Belczynski et al. (2018)
- McKernan et al. (2020)
- Wang et al. (2020)

**Young/Open stellar clusters**
- Ziosi et al. (2014)

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