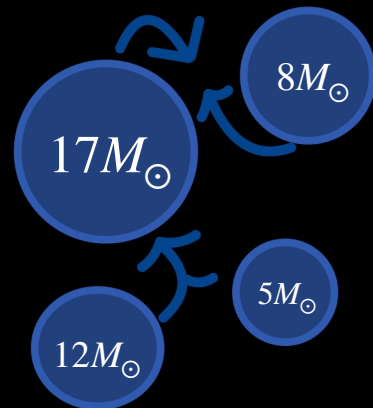
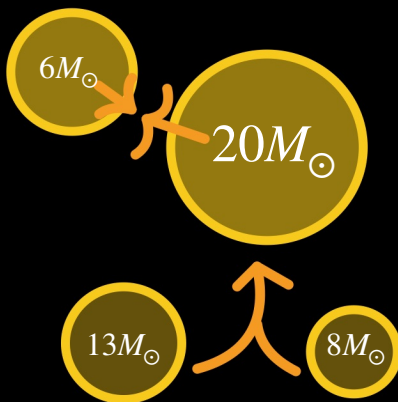




Factsheet

A pair of rapidly spinning, unequal mass black hole mergers



GW241011 & GW241110

detected by	Hanford, Virgo	Hanford, Livingston, Virgo
detection time	October 11, 2024 at 23:38:34 UTC	November 10, 2024 at 12:41:23 UTC
likely distance	170 to 262 Mpc	469 to 1006 Mpc
signal-to-noise ratio	36	11
False alarm rate	1 in 10 ²⁶ years	1 in 1500 years
primary mass	17.1 to 23.2 Msol	12.8 to 22.2 Msol
secondary mass	5.1 to 6.7 Msol	6.2 to 9.9 Msol
primary spin	0.69 to 0.87	0.21 to 0.94
effective inspiral spin	0.42 to 0.55	-0.48 to -0.05
effective precessing spin	0.25 to 0.58	0.15 to 0.75
Hierarchical origin of the primary black hole		
primary mass	9.9 to 17.9 Msol	8.1 to 17.9 Msol
secondary mass	3.6 to 10.7 Msol	3.7 to 9.2 Msol

All parameter ranges correspond to 90% credible bounds.

Acronyms: Mpc = megaparsec; Msol= 1 solar mass.