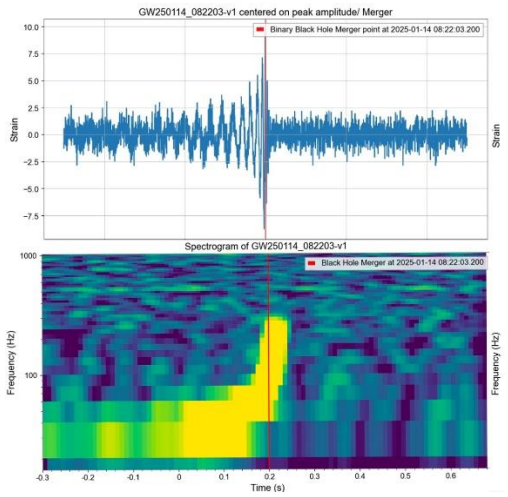
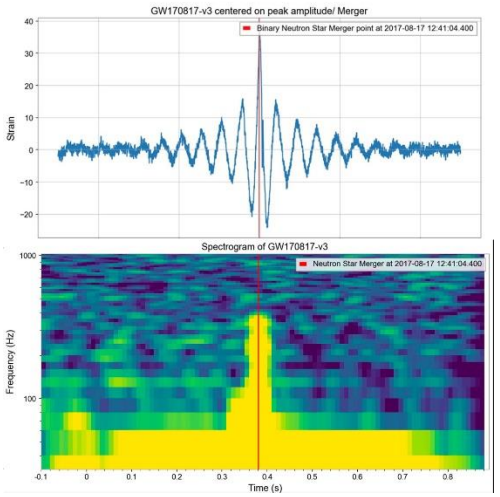
Attributes	GW250114	GW170817
Type of Merger	Binary Black Hole (BBH)	Binary Neutron star (BNS)
Detector Used	LIGO Livingston (L1)	LIGO Livingston (L1)
GPS Merger Time (s)	1420878141.2	1187008882.4
UTC Merger Time	2025-01-14 at 08:22:03.200	2017-08-17 at 12:41:04.400
Primary Mass ($M_\odot$)	$33.6^{+1.2}_{-0.8}$ $M_\odot$	$1.81^{+0.45}_{-0.45}$ $M_\odot$ (90% probability)
Secondary Mass ($M_\odot$)	$32.2^{+0.8}_{-1.3}$ $M_\odot$	$1.11^{+0.25}_{-0..25}$ $M_\odot$ (90% probability)
Combined Mass ($M_\odot$)	$65.8^{+1.4}_{-1.5}$ $M_\odot$	$2.74^{+0.01}_{-0.01}$ $M_\odot$
Post-Merger Mass ($M_\odot$)	$62.7^{+1.0}_{-1.1}$ $M_\odot$	$2.66^{+0.15}_{-0.13}$ $M_\odot$
Mass Converted into energy ($M_\odot$)	$3.1^{+2.2}_{-2.4}$ $M_\odot$	0.03 $M_\odot$
Energy Released (J) ($E = mc^2$)	9.487 x 10^{47} J to 1.25 x 10^{47} J	5.37 x 10^{45} J
Nature of Released Energy	Gravitational Waves	Gravitational Waves + Electromagnetic Waves + Kinetic Energy from Matter Ejection
Redshift (z)	$0.09^{+0.01}_{-0.01}$	0.0099
Distance (Lyr)	1.14 Billion Lyr	144 Million Lyr
Calculated waveform and spectrogram plots using GWOSC and GWPY Python Plugins		
Solar Mass ($M_\odot$) in kg	1.989 x 10^{30} kg	
Light-Year (Lyr) in m	9.461 x 10^{15} m	