

GW190814 Factsheet

Lowest mass ratio event to date
Strongest evidence of higher order modes

Observed by: LIGO Hanford,
LIGO Livingston and
Virgo detectors

Source type: BH and compact
object

Date: August 14th 2019

Time of merger: 21:10:39 UTC

Network SNR: 25

Distance: 196 – 282 Mpc

Redshift: 0.05

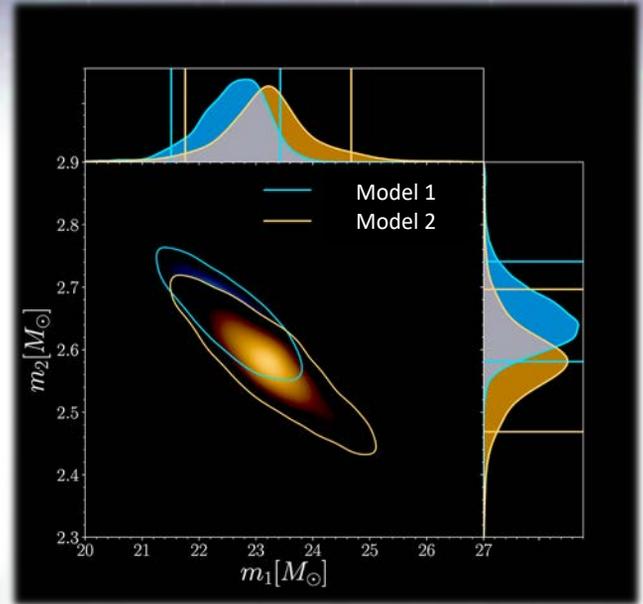
Chirp Mass: $6.1 M_{\odot}$

Primary Mass: $23.2 M_{\odot}$

Secondary Mass: $2.6 M_{\odot}$

Mass ratio: 0.11

Final Mass: $25.6 M_{\odot}$



**Spin Perpendicular to
Orbital Plane:** 0.0

**Spin Parallel to
Orbital Plane:** 0.0

Spin of Final BH: 0.28

SNR in Octupole Mode: 5.2 – 7.9

GW cycles (above 20Hz) 300 cycles

Sky Area: 18 deg²

Merger Rate: 1 – 23 Gpc⁻³
yr⁻¹

**Initial Public Alert
Delay:** 20 min

