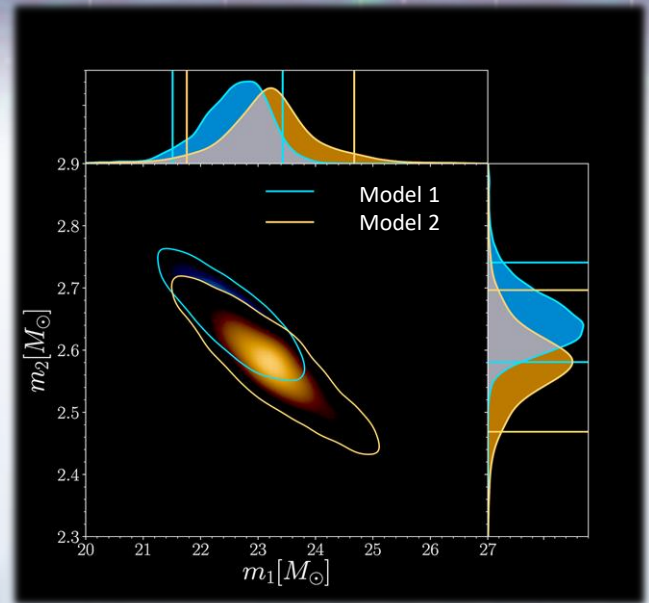


# GW190814 Factsheet

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

<b>Observed by:</b>	LIGO Hanford, LIGO Livingston and Virgo detectors
<b>Source type:</b>	BH and compact object
<b>Date:</b>	August 14 <sup>th</sup> 2019
<b>Time of merger:</b>	21:10:39 UTC
<b>Network SNR:</b>	25
<b>Distance:</b>	196 – 282 Mpc
<b>Redshift:</b>	0.05
<b>Chirp Mass:</b>	$6.1 M_{\odot}$
<b>Primary Mass:</b>	$23.2 M_{\odot}$
<b>Secondary Mass:</b>	$2.6 M_{\odot}$
<b>Mass ratio:</b>	0.11
<b>Final Mass:</b>	$25.6 M_{\odot}$



<b>Spin Perpendicular to Orbital Plane:</b>	0.0
<b>Spin Parallel to Orbital Plane:</b>	0.0
<b>Spin of Final BH:</b>	0.28
<b>SNR in Octupole Mode:</b>	5.2 – 7.9
<b># GW cycles (above 20Hz)</b>	300 cycles
<b>Sky Area:</b>	18 deg <sup>2</sup>
<b>Merger Rate:</b>	1 – 23 Gpc <sup>-3</sup> yr <sup>-1</sup>
<b>Initial Public Alert Delay:</b>	20 min

