

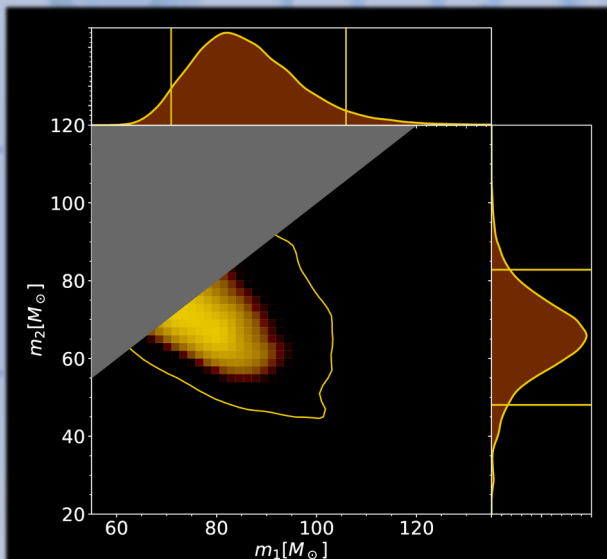
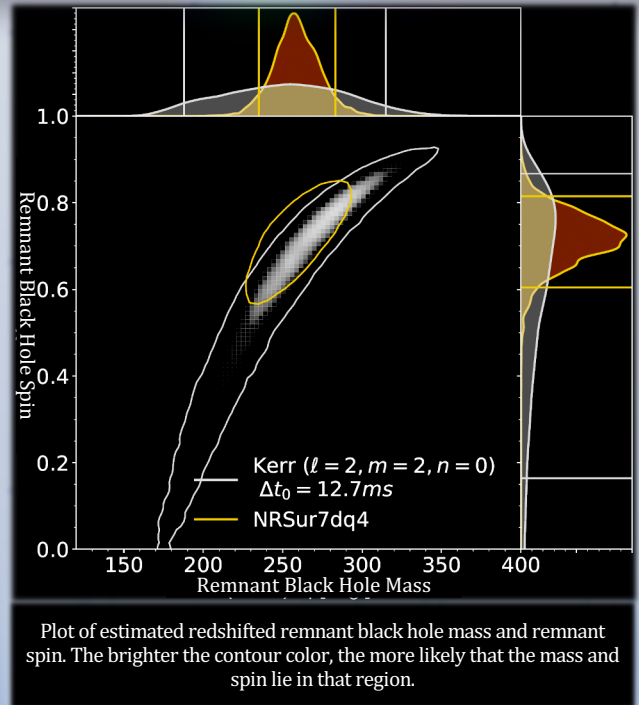
GW190521 Factsheet

Observation of intermediate mass black hole formation

Most massive binary detected to date

Primary companion in the pair instability supernovae mass gap

Detectors observed:	LIGO Hanford, LIGO Livingston, and Virgo
Source Type:	Binary Black Holes
Date:	May 21 st 2019
Merger Time:	03:02:29 UTC
Network SNR:	15
FAR:	1 in 4900 years
Distance:	2.7 – 7.7 Gpc
Redshift:	0.48 – 1.1
Primary Mass:	85 M_{\odot}
Secondary Mass:	66 M_{\odot}



Mass ratio:	0.8
Remnant IMBH's Mass:	142 M_{\odot}
Spin of Remnant IMBH:	0.7
# GW cycles:	4 cycles
Peak Signal Frequency:	60 Hz
Signal Duration:	100 milliseconds

