Províamo ad ímmagínare una catastrofe cosmíca

Províamo ad immaginare una catastrofe cosmica



Noí, ora, catastrofí dí questo típo le possíamo anche osservare...



LIGO Hanford Observatory, Washington (Credits: C. Gray)



LIGO Livingston Observatory, Louisiana (Credits: J. Giaime)



Virgo detector, Italy (Credits: Virgo Collaboration)



pair of stellar mass black holes: 31 M $_{\odot}$ + 19 M $_{\odot}$

luminosity distance ≈ 880 Mpc

GRAVITATIONAL WAVE MERGER DETECTIONS



KEY





Note that the mass estimates shown here do not include uncertainties, which is why the final mass is sometimes larger than the sum of the primary and secondary masses. In actuality, the final mass is smaller than the primary plus the secondary mass.

The events listed here pass one of two thresholds for detection. They either have a probability of being astrophysical of at least 50%, or they pass a false alarm rate threshold of less than 1 per 3 years.

ARC Centre of Excellence for Gravitational Wave Discovery





Resta ancora moltíssimo da fare ...

