

I am thinking that two black hole merger could cause two simultaneous waves: a gravitational wave and an electromagnetic wave with the same waveform, if the electric charges of the black holes are the same.

If we write the equation of the electromagnetic wave emitted by two bodies with the same charge, or the equation of the gravitational wave emitted by two bodies with the same mass, the differential equations (both in general relativity and for the electromagnetic emission ) must be indistinguishable in the low energy field instant by instant (Coulomb's law or Newton's law for two bodies), and I hypothesize the exact indistinguishability of the relativistic fields for high energies (rotating black holes), with the same relativistic fields that are indistinguishable for a suitable definition of mass unit and charge unit.

In summary, I hypothesize that Virgo and Ligo are hit by a gravitational waveform and an electromagnetic waveform (unless a photon delay caused by the interaction with the cosmic microwave background), where the electromagnetic waveform is in the extremely low frequency of 100 Hz, so that this measure could give the electric charges of black holes.

The frequency of the signal should increase as the two black holes approach, increasing the frequency to the limit of the fusion of the two black holes.