

LIGO Detection Of Gravitational Wave ---Repeatable Or One Time Event

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(i) Are the results in experiment (LIGO, Laser Interferometer Gravitational-Wave Observatory) are REPEATABLE?

LIGO observed the most intense portion of the signal (ripple) for about 0.2 s. The frequency of ripples is in range 35-300Hz or energy in range $2.3 \times 10^{-32} \text{ J}$ - $1.9 \times 10^{-31} \text{ J}$.

(ii) Scientific logics confirms the discovery if it is repeatable, at all times and at all cases. The similar interesting situation is being observed at CERN. When energy was 6-7 TeV Higgs Boson having mass 125GeV was produced, when energy is 13-14TeV particle of mass 750GeV is possible (but to be confirmed).

(iii) The energy emitted fusion of in collision of Black Holes (is order 10^{47} J). It is believed that two black holes collided at 1.3 billion years ago. The masses of black holes are 36 and 29 times mass of the Sun. The mass of resulting black hole is 62 mass of the sun. And energy equivalent mass of the 3 suns ($6 \times 10^{30} \text{ J}$) is radiated to gravitational waves (figures from Physical Review Letter, Feb. 16) i.e. $5.3 \times 10^{47} \text{ J}$, Abbott et al)

(vi) Scientist give date of collision 1.3 billion ago (or Einstein? or assumption) of two massive black holes of typical masses. Then during collision when mass equal to 3 Suns i.e. is annihilated and energy equal to $5.3 \times 10^{47} \text{ J}$ is emitted and observed of the pulse $1.9 \times 10^{-31} \text{ J}$ (35-300Hz). Other waves emitted may be detected now when utmost sensitive equipments are there. There are numerous kinds of energies in space. All may have not been fully understood by scientists.

(v) Under the given conditions many more ripples are produced, and should be detectable. Or just one ripple (moving with speed of light, time 0.2s) is produced having energy $1.9 \times 10^{-31} \text{ J}$. Then where does all other energy ($5.3 \times 10^{47} \text{ J}$) go. Need explanation....plz help and clarify Email AJAY.PLUS@GMAIL.COM

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