

Re: LIGO.

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- *From:* "harry" <[harald.vanlintelButNotThis@xxxxxxx](mailto:harald.vanlintelButNotThis@xxxxxxx)>
  - *Date:* Thu, 8 Feb 2007 15:29:11 +0100
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"dlzc" <[dlzc1@xxxxxxx](mailto:dlzc1@xxxxxxx)> wrote in message  
[news:1170869333.336183.149110@xx](mailto:news:1170869333.336183.149110@xx)

Dear cliff wright:

On Feb 7, 3:39 am, cliff wright <[c.c.wri...@xxxxxxxxxxxxxxxxxxx](mailto:c.c.wri...@xxxxxxxxxxxxxxxxxxx)> wrote:

For some years now I have from time to time kept up with developments at the LIGO sites. Just checked again and saw that "Gravitational waves" should be being detected by 2005.

There are some preliminary results (2003) here:  
<http://www.ligo.caltech.edu/docs/G/G030003-04/G030003-04.pdf>  
... which you can get to from the LIGO home page.

Well it is now 2007, and I ain't heard nuthin!

What they appear to be saying is how "Enhanced LIGO" and "Advanced LIGO" and "in combination with Virgo" these things will be detectable. So what you should hear is "we can't detect what the Universe is producing in quantity, with what we have".

Effectively, that is a null result – except if they found an error in the design of their experiment. Right?

Thanks,  
Harald

They are saying that randomly they *might* detect one event a year, rather than 1 every 450 years.

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Seems to me, if it is close enough to detect \*in quadrature\* with this equipment, then one of our close neighbors will have gone SN. We may not care about GW at that point, especially if gravity waves do disperse / propagate at  $c$ .

David A. Smith