

If Wormholes possible then anything is possible

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Further theoretical development of Einstein's Relativity leads to increasing absurdities, and some people are getting fed up with those absurdities.

In recent paper- Wormholes in Dilatonic Einstein-Gauss-Bonnet Theory Panagiota Kanti, Burkhard Kleihaus and Jutta Kunz, conclude [1]:

“Traversable wormholes do not exist in General Relativity, unless some exotic matter is introduced. However, if string theory corrections are taken into account the situation changes dramatically. Here we investigated wormhole solutions in EGBd theory without introducing exotic matter. We determined the domain of existence and showed linear stability with respect to radial perturbations for a subset of solutions. Since the radius of the throat is bounded from below only, the wormholes can be arbitrarily large. Astrophysical consequences will be addressed in a forthcoming paper as well as the existence of stationary rotating wormhole solutions in the EGBd theory.”

(EGBd = Einstein-Gauss-Bonnet dilatonic theory)

Their “string theory corrections” are i.e. update to General Relativity. In other words, it is theoretical development building upon General Relativity.

Hank Campbell at Science 2.0 sarcastically concludes based on this paper via Vergano [2] that he (Hank Campbell) is the Pope and anything is possible [3]:

“Which is his nice way of saying that as long as you buy that a universe of strings makes anything possible, anything is possible. I always like to invoke Bertrand Russell at times like this, namely his assertion of the related proposition that once a contradiction is allowed into a closed system anything can be proven. In discussing this one time, supposedly someone in the audience yelled out a challenge: “If 2 plus 2 equals 5, prove that I am the Pope.””

“Russell replied, “If 2 plus 2 is 5, then 4 is 5; if 4 is 5, then (subtracting three from each side) 1 is 2; you and the Pope are two, therefore you and the Pope are one.””

“In a world of string theory, I can be the Pope, and I can fight vampires across the multiverse using wormholes to get places. I just need to modify dilatonic Einstein-Gauss-Bonnet theory with low energy heterotic string theory and it's all quite easy.”

Given that wormholes are possible then we have all the fantasy as portrayed in science fiction such as Star Trek. Rather than embrace such things, there are now cynics arising (such as Campbell) who think all this building in theoretical physics by the mainstream might be a lot of nonsense. Still the correct way to proceed in math modelling is to update a math model; so, treating General relativity as a math model then update is ideally permissible. Unfortunately, what makes a mockery of that is - Einstein's relativity has many problems with it (such as bad math) which need sorting out before it can be built upon. The necessary correction to Einstein's Relativity – the Einstein supporters strongly resists; and so that is why theoretical physics is stuck in the quagmire of building on the mess. Harry Ricker and many others have pointed out that Einstein's relativity is just contradictions, so any predictive power is really zero, because predicts a result and its opposite.

The exasperation that some people have with the mess in theoretical physics leads people like Peter Woit to write his book: “Not Even Wrong: The Failure of String Theory and the Search for Unity in Physical Law.”

Einstein is hailed as the greatest genius ever who laid the foundations for modern theoretical physics by his fans. Having such an honour he should also be credited with laying the foundations of the mess in theoretical physics that we now have, with the Einstein fans insisting on staying with that mess.

Einstein supposedly gave us a revolution in physics; its high time we recognised that was a mess and set up counter-revolution to go back to building on theoretical physics pre-Einstein.

I am not opposed to wormholes; it is just in the existing set-up of theoretical physics it is a mess, and so working on such concepts in that context is also a mess.

References

- [1] http://arxiv.org/PS_cache/arxiv/pdf/1108/1108.3003v1.pdf
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- [3] Wormholes Possible? Yes, And Using String Theory, I Am Also The Pope
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Typo corrections: 9 Oct 2018