Subject: Particle and Theoretical Physics
Posted by Javaxcx on Wed, 25 May 2005 18:06:08 GMT
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I'd like to open the ball park to those of us which are scientificially inclined. Myself and Doitle often discuss particle theories trying to come up with aspects of a unified theory that works liberally with String Theory as a basis.

We have as of late been discussing the nature of photons and how they can possibly exist at all. According to relativity, such things like solar cells shouldn't even work because photons are acclaimed to have a 0 mass.

E=mc^2 concludes that because of this, they have no energy, thus cannot give energy to the cell. But this is not experimentally true. We can quite easily turn on a light with a solar cell. This therefore entails that light, photons, carry some kind of apparant mass. Whatever that is, we don't need to really specify, because the mere fact that it is there is what it is important.

At any rate, the topic is open to discussion in the crowd, so share your thoughts.