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Subject: Re: Questions I would like to pose to athiests

Posted by [Dover](#) on Fri, 14 Jan 2011 00:16:47 GMT

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Pyr0man1c wrote on Thu, 13 January 2011 15:07@appshot: it could perhaps be normal for matter to exist. Matter(well, energy) cannot be created or destroyed, so either the laws of physics CAN change, and somehow energy was created, or energy has existed for an infinite time. (assuming there is no god). However actual infinitude are thought to be logically impossible (check the internets), unless it goes in a loop.

We already know the laws of physics as we know them haven't always held true. In order for the universe to reach the (known) size it is now, matter would have to have traveled at faster than the speed of light shortly after (Our estimated time of) the "big bang".

As for your infinite loop, it's very possible. One possible theory is the "Closed Universe" theory, which assumes that the force of gravity is strong enough to slow down and eventually reverse the expansion of the universe (As opposed to "Open Universe" theories that say that the force of gravity is NOT strong enough to overcome the expansion of the universe, and that the the universe is a one-shot affair). This would mean that, at "the end of time", the universe will eventually re-condense into another super-singularity and the big bang will repeat itself all over again. It doesn't explain how it all came into being in the first place, but there is something poetic about it.

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