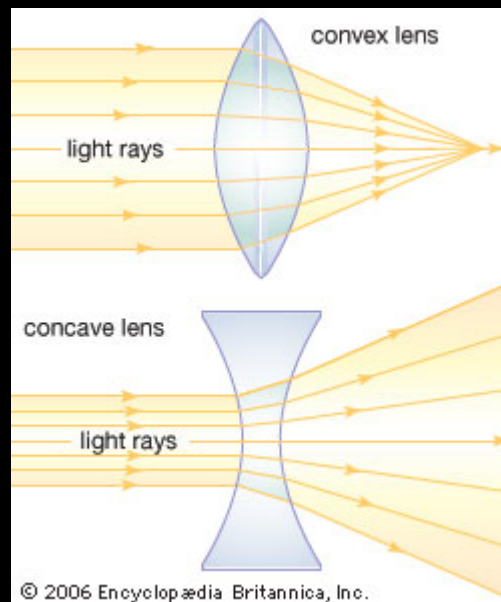


The History of Temporal Elasticity

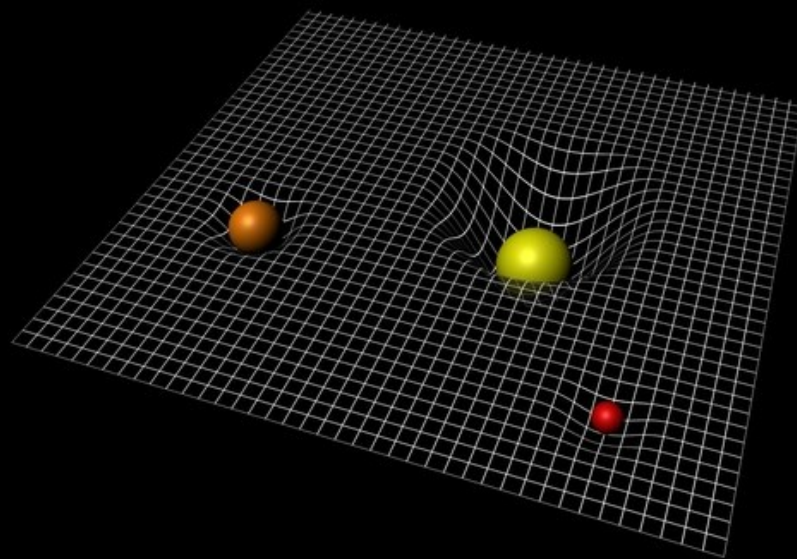
sgm, 2018/NOV/19

Please forgive the spiritual allusions; I need to tell this story from my perspective as I remember it .. Around 30 years ago, back in the mid 80s, God told me to consider gravitation as mediated by temporal curvature/elasticity *only*. At that time, Stephen Hawking was working on 'getting the world to accept' his notions of black-holes; many of us protested/gawked/gaffed. ^^ [sigh] Anyways, when I try to reconcile his ideas with mine, the whole thing sorta 'falls apart' so I won't attempt that right now with you dear reader .. Back to gravitation and temporal elasticity .. So, here I was with a 3-page essay/article (very theoretical) that I *barely* understood myself that clearly God inspired .. So I asked God: "what should I do with *this*?!" And the basic reply was: "just shelve it; you'll need it later". 0 .. kay .. 30 years later and now we have a theory of antimatter which completely makes sense about antineutron stars and baryon asymmetry and dark energy **BUT** .. is a '*little*' difficult to explain the 'whys' (why God created such a f*#ed up universe!). Her response? "It's the only thing that worked." 0.0 0 .. kay...

So without further adoo, let's try to at least *explain* the theory:



(Imagine I'm Her explaining this to me.)
There's two basic types of lenses in optics – convex and concave. Most of us are familiar with convex – it's what you use to burn ants alive in bright sunlight (wow, what a reference 0.0). The other, concave (and we're supposed to remember that concave looks like a *cave*), *disperses* light rather than focusing it. Okay now, imagine there's **ONLY** two ways to bend time (like there's two ways to stretch a rubber band – stretch XOR relax) – similar to the two ways to bend light – focus XOR disperse. Or if you prefer, stretch XOR compress a spring. Whatever works for you. ;) Instead of a 'thing', it's a dimension of space-time, time in particular. AND, it *all* depends on your location. So if you're standing on the surface of a neutron star, time passes about twice as slow for you there BUT, if you're standing on the surface of an *antineutron* star, about twice as *fast*! 0.0 So.. if we think about it carefully, time passes *four times faster* on the surface of an antineutron star relative to the surface of a regular run-of-the-mill *matter* neutron star! 0.0



(Illustrating temporal warping around stars and planets)

AND, because we can imagine nuclei as 'little neutron stars', nuclear reactions happen *at least* four times faster inside antinuclei wrt, with respect to, nuclei. This explains baryon asymmetry and to some extent, dark energy.



"He's dead Jim."

So antistars die *at least* four times faster than regular normal matter stars. 0.0 .. What about black-holes, you ask? Well let's suppose 'temporarily' that Hawking evaporation does not apply to antimatter black-holes. Let's suppose for 'some' ungodly reason they're exempt. ;)



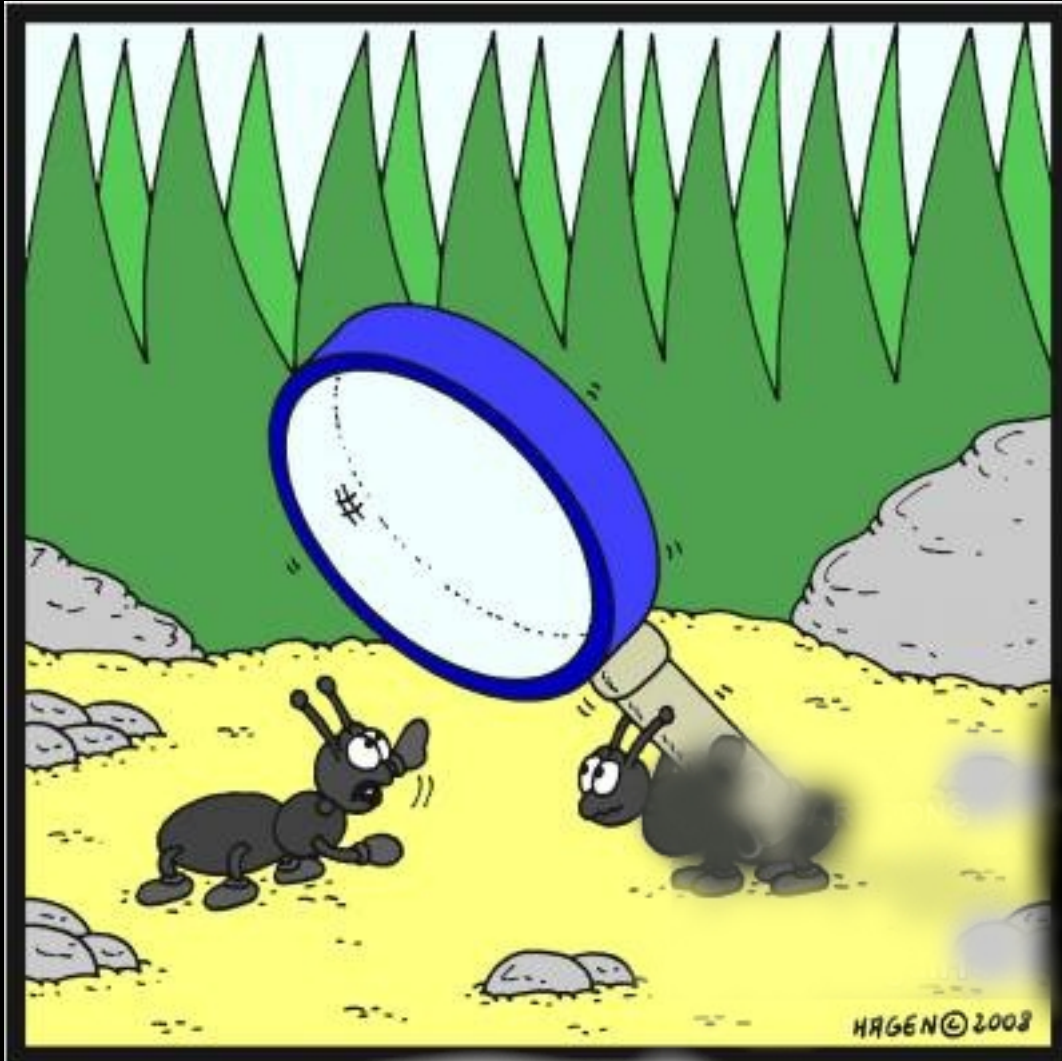
all meatballs GONE!

Since antimatter is *faster* than matter at **EVERYTHING**, primordial antimatter black-holes gobbled up most/all the antimatter in our early universe (we [cough cough] euphemistically call this period the Cosmic Dark Ages – to be addressed below). **AND** not only that, they also gobbled up *regular* matter black-holes in *direct collisions*, albeit rare. This statistically significant event over 14 **BILLION** years causes an initial ratio to go from 50:50 to the current 70:30 explaining dark energy.



So .. the Dark Ages should really be called the Antimatter Epoch. 0.0

And that's about it for the history of temporal elasticity. I know; I know – there's a *lot* of critical assumptions embedded in the framework *but* .. Just because Stephen Hawking is the 'god' of black-holes doesn't make him an *expert* about *antimatter* black-holes which he *never overtly* considered. Hawking evaporation will *never* be observed anyways because it's so slow. It's not unreasonable to assume *different* physics apply to antimatter black-holes regardless; in my experience, God has an insanely crazy sense of humor and I would not be surprised *at all* if She made **ALL** attributes of antimatter contrary to conventional expectations.



"is that concave or convex?"