

## Re: why general relativity is non-linear

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**From:** alistair (alistair\_at\_goforit64.fsnet.co.uk)

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alistair@goforit64.fsnet.co.uk (alistair) wrote in message  
news:<861c1b21.0408291528.78b381b7@posting.google.com>...

- > *The gravitational force is caused by spin 2 force carriers.*
- > *When these interact with vacuum particles and protons and electrons*
- > *they become fermions with positive and negative electric charges.*
- > *Gravity is a pushing force caused by the spin 2 carriers and*
- > *by the fermions they become. In the case of the Earth spin 2 carriers*
- > *from space strike atoms on and in the Earth and some of the fermions*
- > *created*
- > *are deflected back into space along with some unchanged spin 2*
- > *carriers.*
- > *These deflected carriers and fermions reduce the force of gravity to*
- > *below what*
- > *it would be if no deflection occurred and if there was an unopposed*
- > *flow*
- > *of spin 2 from space (for a much larger mass like the Sun, the fermions*
- > *created from spin 2 are less numerous and less energetic and have a*
- > *reduced chance*
- > *of getting back to the surface of the Sun once inside it and among its*
- > *atoms.*
- > *This is because the spin 2 come in different wavelengths and interact*
- > *differently with a mass of a different density to the Earth. The result*
- > *is that the spin 2 flow from space is less opposed and the Sun has a*
- > *stronger gravitational field than Newton's theory would predict.)*
- > *The fermions deflected into space interact with bosons that give*
- > *rest mass to other particles and compress the bosons increasing their*
- > *density. As the fermions travel further from Earth they lose kinetic*
- > *energy and*
- > *compress the bosons less and less. The compressed bosons physically*
- > *slow*
- > *clocks down ( a photon bouncing between mirrors in a mirror clock has*
- > *to scatter off more bosons nearer to the Earth's surface and so the*
- > *clock ticks more slowly). Mass increases for the same reason in special*
- > *relativity –*
- > *the bosons get compressed more the faster a particle strikes them*
- > *( the mass depends on the strength of a repulsive force which gets*
- > *greater*
- > *as a particle penetrates closer to the mass—causing boson's geometric*

- > *centre).*
- > *Neutron star degeneracy pressure and the pressure that stops black*
- > *holes from collapsing to a point is caused by the fermions created by*
- > *spin 2 gravitational force carriers (the fermions are dark*
- > *energy). There are at least  $10^{45}$  carriers per cubic metre in the*
- > *vicinity of a neutron star whose neutrons are separated by  $10^{-15}$*
- > *metres. This is because there must be at least one spin 2 gravitational*
- > *force carrier per neutron.*
- > *Given all the points mentioned above, it is not surprising that*
- > *Einstein's field equations are non-linear.*

ALISTAIR:

The reason why galaxies were able to form so quickly in the past is because gravity was stronger in the past when there were more gravitons around and fewer dark energy particles.

If dark energy particles could not escape from black holes the black holes would expand so quickly that they would be blown to pieces.

This means that dark energy particles move faster than light ( $10^{22.5}$  m/s

according to one of my calculations). And of course the spin 2 gravitational force carrier that creates them does too. The spin 2 is electromagnetic in nature and so all neutral particles are made from electric charges and are probably made from new families of quarks. The Sun and neutron stars expel a higher percentage of dark energy particles as spin 2 than the Earth does, and these bosons do not inhibit the passage of incoming spin 2 from space, making gravity strong.

The jets of particles coming out of some large black holes will get some of their energy from dark energy fermions expelled from the black holes.