

A Possible Explanation for How Charged Particles Work

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declan@netspace.net.au

The model of particles as three dimensional standing waves fits very well to the known properties of particles at the quantum level, but particles come in a number of varieties. How is it possible to explain these different particle types as variations on the common theme of three dimensional standing waves? The basic varieties of particles are: Neutral, Positive & Negative.

Within these categories there are different mass particles. These different masses can be thought of as different frequencies of standing waves, so they are easily explained away (the details of how to construct each one requires careful analysis and does not concern me here - I am happy at the moment to see how it could work).

So the basic problem is how to form charged particles: i.e. standing waves that can attract and repel one another. In tackling this problem one needs to understand that a three dimensional standing wave is comprised of two spherical waves. One wave travels inwards, the other outwards. In order for the two waves to remain synchronized and form a stable particle, the inward wave must be formed as a reflection of the outward wave and vice versa. The reflection involved is not absolute at any location, but acts at every point in space throughout the particle (the particle is a standing wave that extends to infinity).

Thus space acts as a mirror whose effect is progressive (like a pile of plates mirror). Therefore space is a medium with properties. Most optical media have different properties depending on the frequency of light that they are transmitting/reflecting, so space may be the same.

If one imagines a standing wave (particle) and think about what would be required to cause that standing wave to move through space, then the obvious answer is that the rules that determine how the reflective properties of space work are altered. They would need to be altered in such a way that transmission occurs more in one direction than the other (like a one-way mirror). If this was to occur, then the energy that forms the standing wave would flow more in one direction than the other, and the standing wave would re-draw itself in the direction of greater transmission.

So if positively charged particles are one particular frequency or set of frequencies, and negatively charged particles are another set of frequencies; then each set of frequencies may alter the properties of space in such a way that the frequencies of the other particles either transmit or reflect more towards the other particle. If the waves transmit more towards the other particle, then the particles attract. If they reflect more towards the other particle, then the particles repel.

So we can see a possible mechanism and explanation for how charge can be incorporated into the principles of Energy Field Theory and unified with Relativity.

These ideas require much greater development to prove that they can work - any takers?