

Conversations from the Edge

The Case for the Anti-Photon

Back in the Spring of 2009, I began doing some research on the possible scientific explanation of Shadow people. While this is a work in progress, I thought it would be neat to share some of the conversations I have had in exploring the theoretical probabilities involving their potential material make up. As before, the author's name is posted after each statement, and last names have been omitted to protect the guilty.

"This may seem odd, but since a photon is associated with light energy, is there any evidence of a corresponding opposite particle, that would be associated with a lack of light, or even darkness? Perhaps a particle that cancels light?"

-David-

"The antiphoton is also a photon, exhibiting right handed spin, going the opposite way. There is no real left handed light in this world, but it would be present as exchange of momentum between positrons in a world of antimatter, where it would be the light, not darkness. In this world it would in theory cancel right handed light of equal frequency, annihilating the state space they animated. But in a trick of time, by exhibiting change, as I understand it, the resulting implosion will generate equal energy right handed photons from the right handed vacuum energy filling the gap. We see this happen in effect in electron positron interaction, which when interacting over a distance, is equivalent to right handed light and left handed anti-light interaction. The cancellation results in a contraction of local spacetime that exhibits our notion of attraction and the other half of how handedness exhibits charge. Repulsion of like spins, and hence like charge, is by discrete expansion of local space time by instantiating independent state exhibiting photon exchange of momentum away, not fundamental by the magical influence at a distance on everything in the universe ordinarily associated with the notion of charge.

-Jim-

"This is what I suspected, that there was an anti-photon. But I suspect there is more to the story."

-David-

"Remember that what is ordinarily called the antiphoton is just another right handed photon. You may hear often that a photon is its own anti particle.

But there is also the notion of the left handed photon, which is a true antiparticle as it has opposite spin.”

-Jim-

“Ok, I know that. The question is does it cause an annihilation when contacting a photon of equal but opposite spin?”

-David-

“Opposite spin always cancels. In one sense that is all that happens fundamentally in the quantum. The trick is that change propagates so energy is often not always lost by such annihilation and may be in effect doubled, conserving energy on average relative to a global perspective.”

-Jim-

“Ok, let’s expand. Can a group of anti-photons co-exist in an environment without causing an annihilation if it does not encounter photons of equal spin?”

-David-

“We call momentum exchange between electrons photon exchanges, and we can call left handed anti photons exchange of momentum between positrons, these can coexist in space and do not necessarily annihilate. Since our world of matter is exhibited predominantly by electrons rather than positrons, annihilation of left handed light by electron interaction seems highly probable. However, when we see repulsion of two positive charges we are witnessing what is in effect, momentum exchange by exchange of left handed photons.”

-Jim-

“You are helping me a great deal here. I will tell you why I am fishing here. I photographed a phenomenon commonly referred to as a “shadow person”. It is essentially a man-sized shadow of a person, but it is really more like a total absence of light. I believe the reason for this phenomenon is due to a quantum singularity of sorts, and I am trying to determine what it really may be. It occurs to me that a collection of anti-photons may be the culprit. On the other hand, there are still many unanswered questions, but it is a start.”

-David-

“You may be on to the Dark force here, if we can measure it, it is more than a mere memeion, it has high energy, and great power.”

“In our manifest information ecology the dark force prunes, such that it may bloom. Much is in the memeion realm, efficiently propagating the meme supply chain, on every imaginable communication channel, chemical, biological, mental with interactions relatively between layers exhibiting reciprocal relations indirectly, mostly undiscovered.”

“Quantum spin is not turning around at all but seeming to have turned around in both directions to have ended up facing the same way, in a punctuated existence, exhibited only at full cycles, without substance between repetitions of meme propagation.”

“I consider particles to be memeions as subatomic particles are without independent substance intermittently exhibited as a pattern in the surrounding logical action, and because all particles and objects in this world instantiate a memeion translator or repeater in the information universe.”

“It would be very cool if the dark force was directly measurable in the visible light frequency. There are so many ways we experience the dark force, many of them very good, tough love. Creation and destruction go hand in hand in the construction of the machinery of our memetic world. Creation is always favored in the ecology since what exists is what repeats. Science is about what is repeatable. Memes are about patterns that repeat and transform as is existence itself.”

“Bi local quantum events happen on every scale and are apparently all that is happening in a realm where all levels of memetic interaction interact with each other in twisted hierarchies of control which can account for psychokinetic action as memetic, mental kinetic logical process. .Even the electron turns out to be nothing more than a meme we associate with a pattern of logical expression that repeats intermittently in a quantum logical system.”

“Saying left handed photons are a way of understanding the physical action of the dark force in our right handed world is valid. Left handed anti-mater action is our undoing in the world of matter. But to understand how it happens we can forget the photons as there are only perception of momentum exchanges we call photons as a cancelling, doubling, or conservation of action that is both logical and physically manifest. We need to consider the participants.”

“We might have a darkness of reflected light like a shadow, where anti-light is directed by a directed listening for it. Or it could be like a resonance in space causing the migration of positrons to an object like region of space acting as anti-muon memeions resulting in entropy of space time intervals in the visible light range.”

“I am not confident you will find the dark force in the visible range. Nature is always surprising in the channels it uses. It does not oblige us by using what we might expect. I believe mental and

chemical effects of the dark force provide sufficient in mechanism at much lower energies accounts for experience. My own psychokinetic experiments to the contrary were as if there was a conspiracy of our collective mind making measurement of such effects taboo, contradicting our subjective experience of it. I don't really believe the conspiracy theories; I think it is just constructed in surprising ways we have not imagined yet, at more efficient, lower energies, with more redundancy than it appears on first analysis.”

“The physical universe apparently has a collective quantum logical nature. Science models nature as a machine and that machine apparently has a discrete logical, memetic nature where memetic realms interact in collectively determining reality. It is equivalently an information system, more specifically an ecology of information.”

-Jim-

“I have thought about that possibility as an explanation for dark matter being antimatter and having antiphotons in its space. I still think this can be a right solution but it could be not so simple because light is additive and even getting null like in interferences it reappears afterwards. I believe what can cancel light is a strong magnetic field with the opposite spin ☺

Regards”

-Jose-

“Information loss in quantum systems is local to a system. Globally quantum action is never really lost and is purely additive by its synthesis. But decay and entropy of a quantum system is what is expected to be experienced.”

“Anti-matter in our world might tend to have local entropy or darkening resulting from annihilations, but lots of ordinary light can also result.”

“A simpler explanation of dark matter is the effectively higher energy density, and hence greater mass, of the vacuum energy in the vicinity of mass due to space time warping.”

-Jim-

“Additionally, pseudo left handed light is created with strong magnetic fields. Indirectly these could produce a darkening effect. But remember that a strong magnetic field is just what we call the effect of an imbalance in the number of up and down electrons and there is synthesis of space time at different rates in different directions as only like spins interact.”

“The whole system creates as much space time intervals as are destroyed. The destruction, or quantum logical contraction of twisted spacetime intervals is apparent in the attraction we see between opposite up/down orientation magnetic

poles. The handedness, left/right is independent of up/down orientation and is not really canceled in a magnetic field, it is simply allowed to a lesser or greater extent by allowed interactions of like orientation. But the view that it is canceled in parts of the system cannot be said to be wrong.”

-Jim-

“Hi David,

It is not such a daft question as it sounds. According to Newton there should be an opposite reaction not just possible but evident.

I get around this problem by uses two phases for a light photon with my F wave. In the 3D phase it acts as a real 3D particle (putting aside wave/matter duality for now) and in the 4D phase it acts as a real 4D particle. However I go a bit farther than this and say that anti particles are really those existing in 4D. The more they are shunted into 4D the more anti particle properties they exhibit.

Yours sincerely,”

-Alex-

And in the end, we have this paper, which has provided a real direction for the research:

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Antiquanta Discovered

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Abstract Antiparticles are particles with negative energy for which time flows backward. A new consequence of this interpretation is the antiphoton existence which differs from the photon by the helicity sign. Its analogues are an antigraviton and antigluons (the antiquanta of the gravitational and nuclear fields).

Keywords: T-invariance, antiparticles, antiphoton, antiquanta.

Let us consider a tx -plane of Minkowski's space where a photon moves (in the direction of increasing x). For this, evidently, that time also increases (the positive direction of t -axis). As known, the Minkowski space is an R-invariant for electromagnetic phenomena occurring within it. Here $R=PT$ is the relativistic

reflection (4-inversion), P is the space reflection, and T is the inversion (sign change) of time. As a result of R-reflection, the directions of all axes are reversed, and it is found that the time for photon flows backward now. And this, as we know (see, e.g., [1-4]), is the antiparticle property (the known Stueckelberg-Feynman-Strel'tsov interpretation). Its factual consequence is the negative energy of antiparticles. There is an *antiphoton* before us!

Elucidate now another (observable) difference between the photon and antiphoton. Let the photon spin be directed along the momentum (the helicity $\lambda=+1$). After reflection, the momentum direction reverses but the spin direction (as an axial vector) does not change, i.e. the helicity changes ($\lambda=-1$). Thus, the distinctive observed difference of antiphoton (versus a photon) is the opposite sign of helicity. Just as an antineutrino is differed from a neutrino. The lepton charge of neutrino masks this fact that for massless particles the helicity sign is the distinctive indication of antiparticle from particle.

The same reasoning can be applied to the photon analogues: the graviton and the gluons (the quanta of gravitational and nuclear fields). As a result, after the discovery (more 70 years ago) of the first antiparticle - positron [5] we have the whole family of new antiparticles (*antiquanta*): the *antiphoton*, *antigraviton* and *antigluons* [6]. If the antigraviton differs from the graviton the helicity sign only, then the antigluons can be differed from the corresponding gluons by the opposite "color charge".

Now the urgent question arises how to distinguish the true quantum from the antiquantum. And in the first place, it concerns the photon and the antiphoton.

References

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Look for future developments!