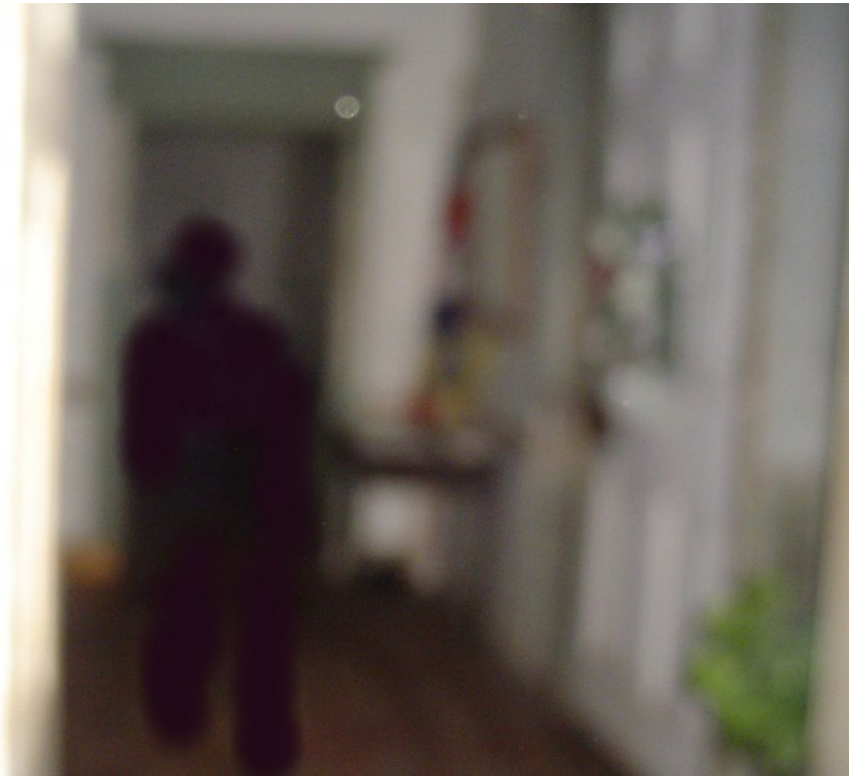


Shadow People

Or opening up a can of worms...



The entire subject of shadow people is both fascinating and controversial. To date, science has offered little in the way of an explanation for the reported phenomenon, other than the standard responses they have for any paranormal phenomena, which is in my opinion a cop out. The official hypotheses are:

1. Pareidolia

In most instances, witnesses report seeing shadow people in the peripheral areas of their vision. This area of vision is linked to the areas of the brain that recognizes patterns, however it provides less detail to the brain than macular (center-forward) vision. This can lead to a condition known as pareidolia, in which the brain incorrectly interprets random patterns of light/shadow or texture as being familiar patterns such as faces and human forms. The same condition can also be observed in macular vision in low light conditions, or when viewing a complex but random image. A common example would be perceiving a shadow, thrown by an item of furniture in a darkened room, as being a person.

On the other hand, our peripheral vision is also very sensitive to the invisible light spectrum. Our perception of Infrared and Ultraviolet occur in this area of vision. Is this a factor?

2. Hypnagogia

Also known as waking-sleep, hypnagogia is a documented physiological condition in which a person is part-way between sleeping and waking. During hypnagogia, a person can be conscious and aware of their environment, but also in a dream-like state where they can perceive images from their subconscious. People experiencing waking-sleep commonly report the sensation of lights or shadows moving around them, as well as other visual hallucinations. A feeling of dread is also a sensation that occurs when experiencing hypnagogia. Hypnagogia is sometimes known as 'the faces in the dark phenomenon' because those who experience this state commonly report seeing faces while experiencing waking-sleep. Similar hypotheses have been put forward linking this condition to a number of other apparent paranormal experiences, including alien abductions, paranormal nocturnal visitations, and religious experiences such as contact with angels or demons.

Additionally, this condition has been used as a catch all solution to UFO/Alien abductions, Sleep paralysis, and other paranormal related phenomena. While this may be the case in some instances, it certainly isn't the case in all.

3. Chemical agents

The use of narcotics and psychotropic agents, including methamphetamine, cocaine, MDMA (Ecstasy) and LSD, can produce shadow human shaped hallucinations. Dopaminergic drugs such as pramipexole can sometimes cause these hallucinations. Common over-the-counter medication can also have a similar effect if taken in overdose (see diphenhydramine).

While I have seen this statement made repeatedly I have never seen any data whatsoever to back this up. In my opinion this is pure conjecture.

4. Electromagnetic fields

Demonstrated in laboratory conditions, electromagnetic fields have been demonstrated to interfere with the functions of the temporal lobe; creating altered states of perception in which auditory and visual hallucinations can occur.

A second example of recreating this phenomenon in a laboratory setting, researchers used electromagnetic fields to recreate many of the experiences reported during paranormal encounters including those of shadow people. Researchers have also documented correlations between variances in naturally-occurring magnetic fields and areas where paranormal events have been reported.

The primary source for this is of course the study performed by Dr. Michael Persinger in his God Helmet experiment. The issue here is these EMF waves were of a specific frequency to trigger specific effects, and were stimulating the brain via a very close proximity using an electrode. While this works in a lab, it is not a condition encountered in the field. To penetrate the skull, EMF has to be very intense, which would be an environmental anomaly also worth investigating for source. Since nearly all background EMF is in the 60 Hz range, and 60 Hz EMF is not associated with visual stimulation that creates hallucinations of shadow people, another source for the EMF needs to be identified. If that fails, then we have a deeper mystery. But back to Persinger, his work needs to be duplicated far more before we accept this as a norm and not an artifact. Studies do indicate that 1 in 3 people have a sensitivity to certain frequencies of EMF, but again, this would not explain all occurrences.

5. Neurological conditions

Certain neurological conditions, such as photosensitive complex partial seizures and Dementia with Lewy bodies, have also been known to cause sufferers to see shadow people.

Again, this is a nice explanation, but not a realistic one. So what is a shadow person?

Folklore tells us about a number of paranormal beliefs for shadow people that have been drawn from various religions, parapsychology, metaphysics, demonology, and the occult. These include:

1. Specters

One proposal is that Shadow People represent a Thought form (egregore), ghost or demon that was created by events in which extreme physical/emotional stress/trauma has taken place, or which have been purposefully summoned through black magic or other occult practices. It has also been claimed by many paranormal pundits that they are unattended shadows or shades, said in some cultures to be similar to that of a ghost: a flicker of a life unable to end for some reason.

This may be true but we will have to prove it.

2. Interdimensional

A second belief is that they are creatures from another reality whose "dimension" occasionally overlaps with ours, allowing them to be partially visible, or that they represent creatures that exist on a separate plane of existence.

Based on my own research this line of thinking has the most validity if a shadow person turns out to be a being or entity. Again, we will have to prove this.

3. UFO

A third belief is that they are in some way related to Grey aliens, or to the Reptilian humanoids found in conspiracy beliefs such as those promoted by David Icke and others.

Again there is no proof. So I decided to determine what could cause the phenomena scientifically, and I stumbled upon an interesting concept. This concept involves the sub-atomic particle known as the "anti-photon". My journey took me through several lively conversations with physicists and other scientists from various yahoo physics groups on the web. Let me share some of the conversations. I will use only first names to protect identities.

My questions are in bold, with responses.

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

Here is what I got back:

This could be the antiphoton.

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 antilight 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-

Upon which I replied:

This is what I suspected, that there was an anti-photon.

Then I received:

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-

The question is does it cause an annihilation when contacting a photon of equal but opposite spin?

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-

Also, can a group of anti-photons co-exist in an environment without causing an annihilation if it does not encounter photons of equal spin?

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.

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 antimater 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 antilight 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

Globus

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.

Antimater 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-

I believe what can cancel light is a strong magnetic field with the opposite spin.

-J-

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-

I am leaning more towards a frequency perspective than a phase perspective. I am not sure phasing results in any significant factor.

Hi David,

This is another feature of light that you have noticed!

It never seems to be out of phase. Even when bent around a massive star it eventually corrects itself.

I believe the answer to this is given by describing the cubic expansion of light in Newton's cube.

To travel from corner to corner you need to travel at square root of 2 times the speed of light and the square root of 3 times c going from opposite corners of the cube.

I think I designed the Fwave as 1D light in 2D as 2F1. What matters really is that the F wave does elongate as we go above the speed of light. At the same time it reduces in amplitude so exactly the same work is done for one phase!

With my assertion that there is a restitution of space and time it seems obvious to me that the interaction of F waves or light will create a combination as for normal waveforms (eg water).

Light is further constricted by the properties of our 3D that exert an upper bound on the speed of light albeit that it acts as an inter dimensional force between 3D and 4D.

Now if we consider two opposing light rays they don't cancel each other. Fwaves for an electron would act like this.

Perhaps (I have not considered this before) the reason for this disparity is that the light photon is constantly acting as a form of energy that converts to mass and back to energy continually.

The chances of two light rays hitting each other in 3D at the peak of their phase is extremely unlikely.

Even if they did light spreads out so only the light at the centre line of the two light cones would cancel.

As far as I know this is the first explanation for this phenomenon.

Yours sincerely,

Alex

So what else is vital here? What happens when a photon and an antiphoton collide?

The two annihilate. A gamma ray is released.

-Dim-

I think about a tx-plane of Minkowski's space in which a photon moves (in the direction of increasing x). Time will also increase (the positive direction of t-axis). The Minkowski space is an R-invariant for electromagnetic phenomena occurring within it. Math-wise, $R=PT$ (the relativistic reflection) 4-inversion, P is the space reflection, and T is the inversion (sign change) of time. Consequently due to the R-reflection, the directions of all axes are reversed, and time for photon subsequently flows backward. This would be the antiparticle property (I believe according to Stueckelberg-Feynman-Strel'tsov interpretation). This adequately demonstrates the negative energy of antiparticles.

This would be a clear indication of an antiphoton! As per Jim, he points out another vital difference between the photon and antiphoton. If the photon spin is directed along the momentum (the helicity $\lambda=+1$), then AFTER reflection, the momentum direction reverses but the spin direction (as an axial vector) does not change, in other words the helicity changes ($\lambda=-1$), then the distinctive observed difference of an antiphoton versus a photon would be the opposite sign of helicity, correct? I make this assumption based on the fact that an antineutrino is different from a neutrino. The lepton charge of the neutrino of course masks the fact that for massless particles the helicity sign is the indicator of antiparticle or particle.

May I then assume that the same valid reasoning can be applied to the photon analogues such as the graviton and the gluons (the quanta of gravitational and nuclear fields)? If the antigraviton differs from the

graviton by the helicity sign only, then the antigluons can be distinguished from the corresponding gluons by the opposite "color charge".

Or am I completely missing the point?

I think I lost everyone after that one. Everyone except Alex that is....

Hi David,

I find it hard to dispute what you are saying. I note that Minkowski space is an R-invariant. This is similar to my saying that the 3D and 4D phases use exactly the same amount of energy. I don't dispute that things work in reverse the direction of a ray of light does not effect its action. What we are looking for is cancellation. I don't believe that this exists. If we have two lamps turned on the light directly between them does not cancel; even if we allow for phase offsetting by moving them apart.

I suppose this can lead us to suggest that two light sources act to combine their total output as if they were a single source. It is not easy at all to answer why this is so. Your finding about the change in helicity as it changes ($\ddot{e}=-1$) reminds me of the orthogonal change between 3D and 4D phases of my F wave. Perhaps I am thinking about this all the wrong way? Let me put forward a suggestion off the top of my head...

I had presumed that at the peak of the photon's 4D phase it consists entirely of matter (and so too the anti-photon). Is it possible to have an anti-photon that is totally energy at this point in the phase? I suppose so but it would not traverse into 3D at the end of the 4D phase. Unless of course I am missing something (assuming anti-photons exist).

Idea!

It would not be 100% matter at this point but 100% anti-matter so the possibility of crossing the 3D/4D boundary could exist. So I am not saying that anti-photons exist but I think they could do at least theoretically. Explaining this against observed behavior is problematic though.

Yours sincerely,

Alex

Ok, so after all of this mumbo-jumbo quanta talk, what does it all mean?

It means the effect of what we call a shadow person may be able to be measured. While I have dismissed the cluster of dark particles known as anti-photons to be a possible cause via thought experiments, (anti-photons are a form of anti-matter, and may be the result of an interaction between time, space and a parallel universe, but would cause a very violent explosion if the encapsulating magnetic field failed) but I do believe there is a particle that absorbs light involved, and this too could also be the result of an interaction between time,

space and a parallel universe . It would go far to explain why we measure Gamma radiation spikes in the proximity of this type of phenomena.

But either way, it reveals hope. If we can measure it, we can prove what it is.