

Gravity is not a force

This idea is that gravity is an emergent property of another interaction. This theory helps bring a better understanding to some of the effects we see within general relativity as well as some insights to quantum interactions.

The theory

The basic idea is that space-time is not a field, and gravity is not a bending of said space-time. I believe that space-time is made of many individual units, and these are in constant motion I will refer to this as 'quantum flow'(figure 1 and 3). and these units move in vectors (figure 2), when they interact with things that are not traveling light speed (space-time speed) they slow down and this reduction in speed is what we refer to as gravity because it causes an imbalance between two objects (figure 4 and 5), this interaction can be described in most simple terms with the inverse square law (figure 5), this however is not a full description of moving objects and this is where Einstein better described this interaction (figure 6).

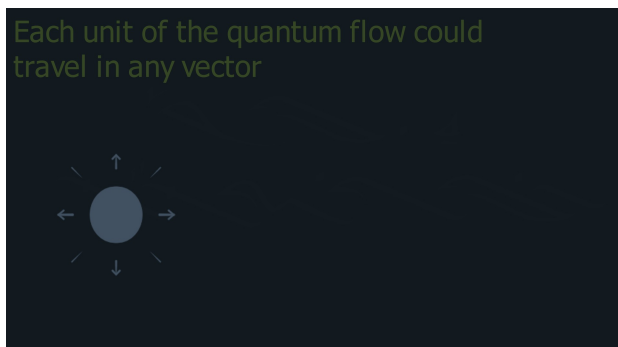


figure 1

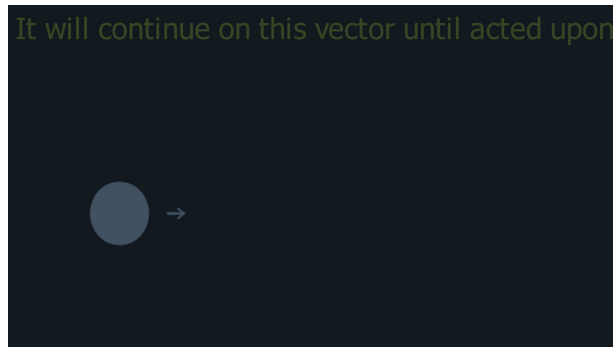


figure 2

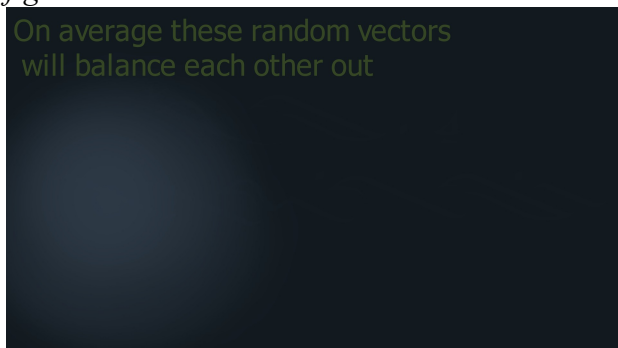


figure 3

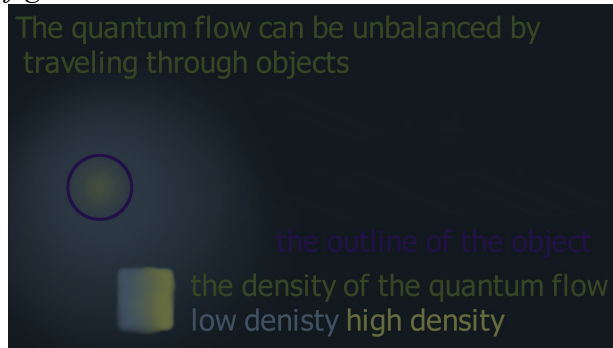


figure 4

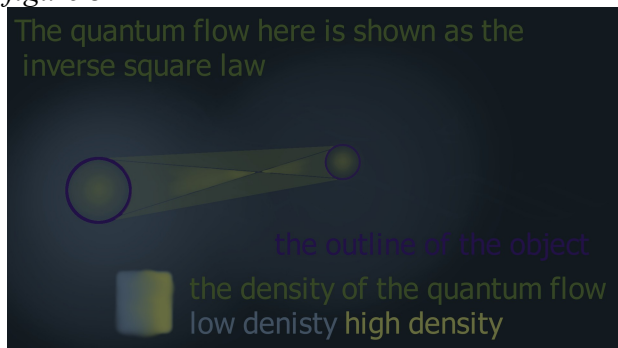


figure 5

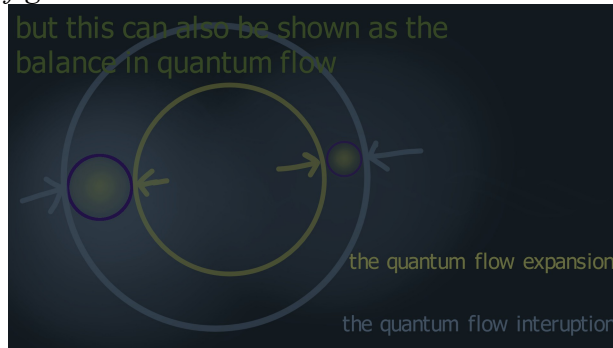


figure 6

Einstein believed space-time to be curved from his interpretation of the math, I think that the math is simplest as a curvature but is not a reflection of reality, the same way an object traveling through increasing density would see the same energy curvature as an object traveling uphill.

I hope this theory will help update the math that we use to describe gravity, for now we will just discuss this as a series of explanations that are more intuitive, and/or complete with our observations.

Gravity

Gravity travels to infinity while we would expect curvature to return to 'flat' within a rather short distance, however i would expect quantum flow to travel forever seeing as each unit travels in a single vector, which would convey the imbalance over an infinite distance.

Black hole structure

If we think of the quantum flow as a gas then black holes would be either a liquid or solid form, where the flow is stopped so only the surface can interact, for example if the flow was shown as a movement of marbles and the black hole a group of those marbles when there is enough marbles a new one crashing into it is unlikely to do anything, it might knock off another marble occasionally but the structure would remain intact (hawking radiation) (figure 7) however if the structure is too small a marble crashing into it would completely break the structure which would mean small black holes are unstable (figure 8).

Black hole behavior

If space-time is only capable interaction on the surface of a black hole we would expect black holes to be very long lived, as the surface would have to be worn away by these interactions and it would have to fall below a critical limit (figure 7 and 8). our current understanding reflects the same, within this frame work I would not expect there to be an upper limit on a black holes.

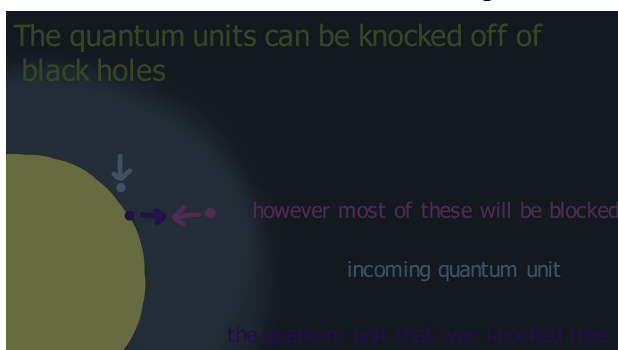


figure 7

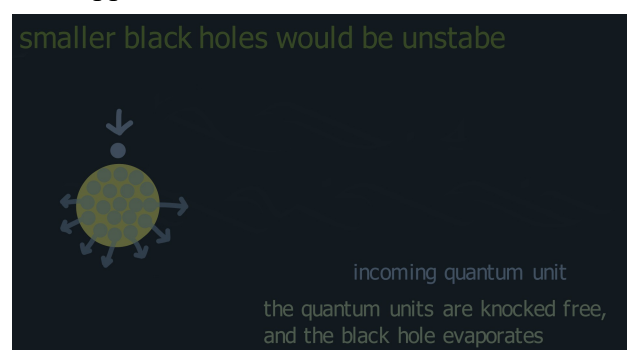


figure 8

Light

Light has many properties that are described well by this theory. The speed of light is determined by the speed of the quantum flow. Light mass, light does not have a 'mass' as it travels with the quantum flow at full speed there is no slowing effect on the flow, light has momentum, as light changes vectors it will have to switch the quantum units its traveling with this transfer does affect matter/flow (momentum). Light redshift, as light is traveling at full flow the bulk of its interactions will with flow traveling in opposite directions and may have the quantum flow expand within them and these will be the biggest contributing factor of red-shift (figure 9) (see also dark energy).

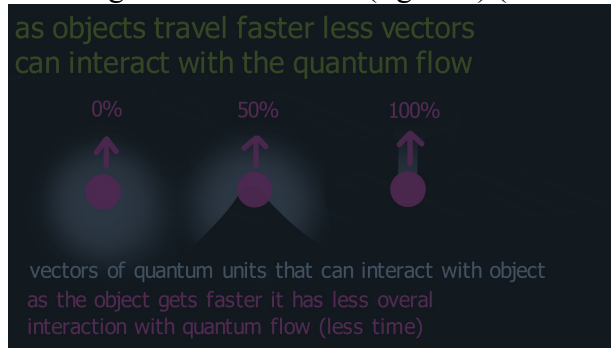


figure 9

Time

Time dilation, it would seem counter intuitive to think as you travel through more space-time you experience more space but less time, in quantum flow the faster an object is traveling the less interaction it has with space-time (figure 9). units, time would be defined as the amount of quantum flow an object is experiencing, this predicts a smallest unit of time which would be a single quantum unit.

Dark energy

This section is much more speculative than others as there is little/no evidence to work with, there is clear evidence of interactions between matter and quantum flow, I speculate that quantum flow is dark energy and that quantum units (that make the flow) are the smallest form of energy (also time and distance) for example as a photon of light travels through quantum flow it will eventually encounter an area without as enough quantum units to support it and may lose some of its energy to creating additional quantum units (contributing to red-shift), if energy ultimately decays into quantum units this would create an expansive force.

Dark matter

as there is a clear interaction between matter and quantum flow, I would expect matter to prevent quantum unit creation, for example inside a black hole where there is no flow I would not expect an outward flow from the black hole, and its possible the higher density of flow inside objects also prevents new quantum units creation (quantum flow expansion) I would expect the quantum flow expansion to be variable and this would explain 'dark matter' as the current equations expect a uniform quantum flow expansion (figure 7).

Quantum

this flow is likely not uniform everywhere, the incongruity of of the flow is likely behind various things like quantum tunneling and the quantum flow may provide insights to the double slit experiment.

Predictions

There are not many strong predictions with this theory, it does not leave room for the gravaton or wormholes. Finite time scale is also a requirement of this theory. Black holes too big to be supported by general relativity would support this theory, and tiny black holes would be strong evidence against. These are the strongest indicators I could think of without the math having been developed.

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