



## Elementary interaction. Graviton. Step 2 Veronica Glass 2021

### Quantum gravity.

In quantum field theory, these forces are described by the exchange of virtual bosons: the standard model of particle physics describes strong, weak and electromagnetic interactions, but a quantum field theory has not yet been able to be developed for gravitation.

The powers of these fundamental forces are very different. If the kinetic energy of the particles increases, the powers come closer.

The four forces are believed to have the same potency at the extremely high energies that were in play just after the Big Bang during the Planck era.

Gravitation Gravitation is the phenomenon of physical interaction which causes the mutual attraction of massive bodies to each other, under the effect of their mass.

It is observed on a daily basis because of the earthly attraction that keeps us on the ground.

Gravity is responsible for several natural manifestations: tides, the orbit of the planets around the Sun, the sphericity of most celestial bodies are some examples.

More generally, the large-scale structure of the Universe is determined by gravity.

Gravitation has the following properties: Dominant for large structures in the Universe because it is always attractive and cannot be neutralized like electromagnetic forces.

Unlimited radius of action.

The weakest of all interactions,  $10^{38}$  times weaker than the strong nuclear interaction (i.e. one hundred billion billion billion billion times weaker)

The gravity vector is still unknown to this day. However, certain hypotheses put forward the idea that a particle would be at the origin: the graviton.

**Solar Cycle 25 has begun.**

**Sky sample.**

**Sunday 13 September 2020. 6.48pm.**

**Step 1 pixel by pixel, the visualization of solar particles.**

**Step 2 Processing algorithm.**

**But in fact they are the last steps from many others.**

**+ Details in the dialectic tab**

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