

Fundamental interactions

There are PARTICLES ASSOCIATED to each fundamental interaction, allowing its propagation.

Gravity

Universal attraction, planets, galaxies.

GRAVITON?

Weak interaction

Radioactive decays.

Z⁰, W⁺, W⁻

Electromagnetism

Electricity, magnetism, atom and crystal cohesion, chemistry.

PHOTON

Strong interaction

Proton and neutron cohesion.

GLUON

- The 4 fundamental interactions are all needed for the Sun (and all the stars) to shine:
- Star formation caused by gravity;
- Nuclear fusion reactions caused by weak and strong interactions;
- Light production: electromagnetic interaction.

The 4 particles of the first family are all present in the Sun which sends an intense flux of photons and neutrinos to Earth.