

Six Fundamental Physical Forces

Gravitation

Gravitophotons $H_3(S^2 \times P^1)?$
attractive +, repulsive -

$$G_{\text{op}} = 1/67^2 G_0$$

Coupling of
Electromagnetism - Gravitation

Virtual particles:

Nuclear Force ??



Gravitation

Graviton $H_1(S^2)?$
attractive +

$$G_0 = 6.671 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$$

Real matter:
Solar System
Galaxies
Black holes



Gravitation

Quintessence $H_3(P^2)?$
repulsive -

$$G_q = 4.3565 \times 10^{-18} G_0$$

Dark energy
Cosmic acceleration



Electromagnetic

Photon



Atoms
Light
Chemistry
Electronics



Weak

Bosons



Neutron decay
Beta radioactivity
Neutrino interaction
Stellar fusion



Strong

Gluons



Baryons
Mesons
Nuclei



Apps Of Physical Forces

Harry Bowne Skillman



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