

What is mediating particle.

All particles of matter mediate forces through a 'force carrier', which is exchanged between the interacting particles (includes subatomic). These exchange carriers are also known as *field particles*, or *gauge bosons*.

Each basic force has a **different** type of carrier :

Table 3 : Four fundamental forces

Force	Relative strength	Range	Mediated particle
1. Strong nuclear force	1	Short ($\approx 10^{-15}$ m)	π -meson
2. Electromagnetic force	10^{-2}	Infinite	Photons
3. Weak nuclear force	10^{-13}	Very short ($\approx 10^{-16}$ m)	Boson
4. Gravitational force	10^{-39}	Infinite	Graviton