

4-Force Universe

	Particles Exchanged	Strength	Range	Effects: Stable Systems	Effects: Physical Reactions
Strong Force	Gluons	1	10^{-13} cm	Atoms	Nuclear Reaction
Weak Force	Intermediate Vector Bossons (W^+ , W^- , Z)	10^{-5} – 10^{-13}	10^{-13} cm	None	Radioactivity
Electromagnetism	Photons	10^{-2}	Infinite	All matter from rocks to cells	Chemical Reactions
Gravity	Gravitons (Not Yet Found!)	10^{-39}	Infinite	Solar Systems, Universe as a whole	“Falling Objects”

