

Summer School on Particle Physics

Three Generations of Matter (Fermions)						
	I		II		III	
mass	2.4 MeV	4.8 MeV	124 MeV	1.27 GeV	171.2 GeV	0
charge	$+\frac{2}{3}$	$-\frac{1}{3}$	$+\frac{2}{3}$	$-\frac{1}{3}$	$+\frac{2}{3}$	$-\frac{1}{3}$
spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
name	u up	d down	c charm	s strange	t top	b bottom
Quarks						γ photon
						g gluon
	0	0	0	0	0	0
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
	ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino	ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino
						Z weak force
						W weak force
Leptons						
	0.511 MeV	105.7 MeV	1.777 GeV	1.777 GeV	81.9 GeV	81.9 GeV
	-1	-1	-1	-1	-1	-1
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
	e electron	μ muon	τ tau	τ tau	τ tau	W weak force

Contribution ID: 6

Type: not specified

Presentation with students