

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	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
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	0	0	0	0	0
	$-\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{1}{2}$
	e electron	μ muon	τ tau			

Contribution ID: 50

Type: not specified

BSM II

Wednesday, 24 July 2019 16:00 (1 hour)

Presenter: Dr PANIZZO, Giancarlo