

Summer School on Particle Physics

Three Generations of Matter (Fermions)

	I	II	III	
mass	2.4 MeV	1.27 GeV	171.2 GeV	0
charge	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0
spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
name	u up	c charm	t top	γ photon
Quarks	d down	s strange	b bottom	g gluon
	$\frac{2}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	0
	$\frac{2}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	1
	0	0	0	0
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
	electron	muon	tau	weak boson
Leptons	e	μ	τ	Z
	0.511 MeV	105.7 MeV	1.777 GeV	91.187 GeV
	-1	-1	-1	0
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
	electron	muon	tau	weak boson
	0.511 MeV	105.7 MeV	1.777 GeV	80.4 GeV
	-1	-1	-1	1
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
	electron	muon	tau	weak boson

Contribution ID: 32

Type: not specified

Detectors II

Wednesday, 17 July 2019 09:30 (2 hours)

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