

Summer School on Particle Physics

Three Generations of Matter (Fermions)																			
	I			II			III												
mass	2.4 meV			1.27 GeV			171.2 GeV												
charge	2/3			2/3			2/3												
spin	1/2			1/2			1/2												
name	u			c			t												
	up			charm			top												
Quarks	d			s			b												
	down			strange			bottom												
	4.8 MeV			124 MeV			4.2 GeV												
	-1/3			-1/3			-1/3												
Leptons	ν_e			ν_μ			ν_τ												
	electron neutrino			muon neutrino			tau neutrino												
	0			0			0												
	-1/2			-1/2			-1/2												
Bosons (Forces)	e			μ			τ												
	electron			muon			tau												
	0.511 MeV			105.7 MeV			1.777 GeV												
	-1			-1			-1												