

# 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	$\gamma$ photon
Quarks	d down	s strange	b bottom	g gluon
Leptons	$\nu_e$ electron neutrino	$\nu_\mu$ muon neutrino	$\nu_\tau$ tau neutrino	Z weak force
	e electron	$\mu$ muon	$\tau$ tau	W weak force

Contribution ID: 25

Type: not specified

## Gauge Bosons II

Thursday, 19 July 2018 16:00 (1 hour)

**Presenter:** Prof. COBAL, Marina