

# The Standard Model of Particle Physics

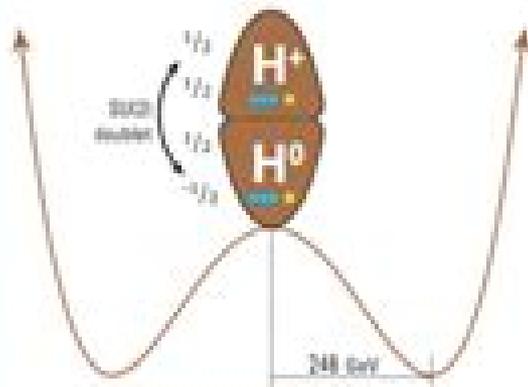
## Spin 0 (Higgs Boson)



## Spin 1/2 (Fermions)



## Spin 1 (Gauge Bosons)

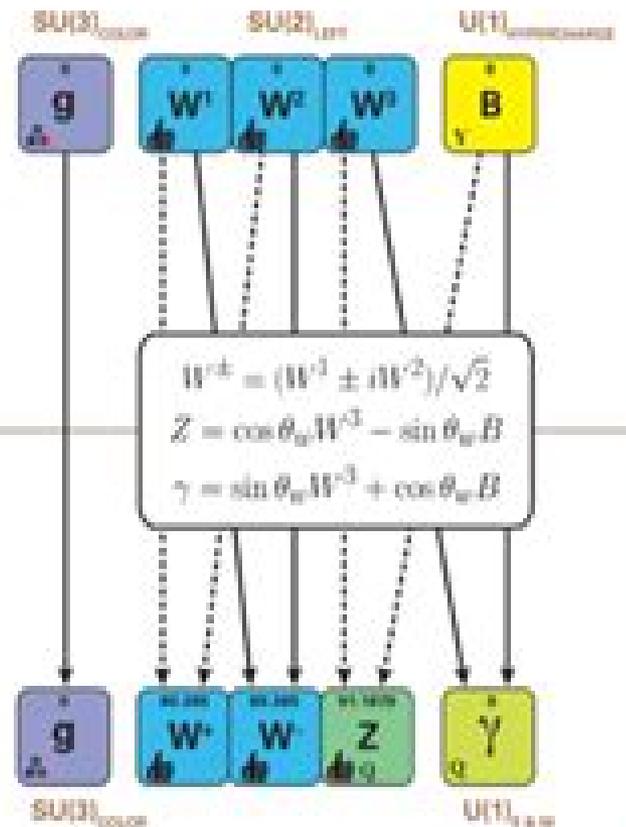


Unbroken Symmetry  
 Broken Symmetry



	1 <sup>st</sup> Generation	2 <sup>nd</sup> Generation	3 <sup>rd</sup> Generation	
Quarks	$\frac{2}{3}$ u	$\frac{2}{3}$ c	$\frac{2}{3}$ t	$\frac{1}{2}$
	$-\frac{1}{3}$ d	$-\frac{1}{3}$ s	$-\frac{1}{3}$ b	
	$-\frac{1}{6}$ $\nu_u$	$-\frac{1}{6}$ $\nu_c$	$-\frac{1}{6}$ $\nu_t$	
Leptons	$-\frac{1}{3}$ e	$-\frac{1}{3}$ $\mu$	$-\frac{1}{3}$ $\tau$	$-\frac{1}{2}$
	$-\frac{1}{6}$ $\nu_e$	$-\frac{1}{6}$ $\nu_\mu$	$-\frac{1}{6}$ $\nu_\tau$	
	$-\frac{1}{6}$ e	$-\frac{1}{6}$ $\mu$	$-\frac{1}{6}$ $\tau$	

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Leptons	$-\frac{1}{3}$ $\nu_e$	$-\frac{1}{3}$ $\nu_\mu$	$-\frac{1}{3}$ $\nu_\tau$
Leptons	$-\frac{1}{3}$ e	$-\frac{1}{3}$ $\mu$	$-\frac{1}{3}$ $\tau$



# Beyond The Standard Model Iii

**Kathleen Armour**



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