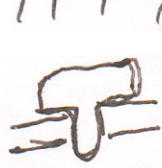
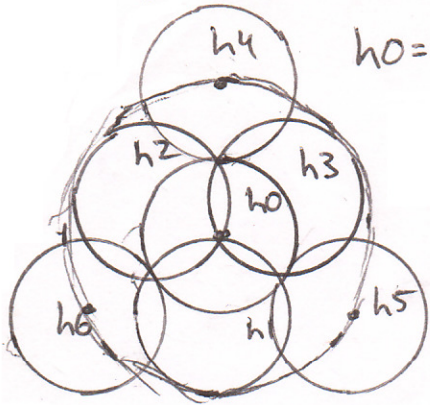


9/16/2014

~~scribble~~

$h_0 = \frac{1}{2}$

000	0
001	1
010	2
011	3
100	4
101	5
110	6
111	7



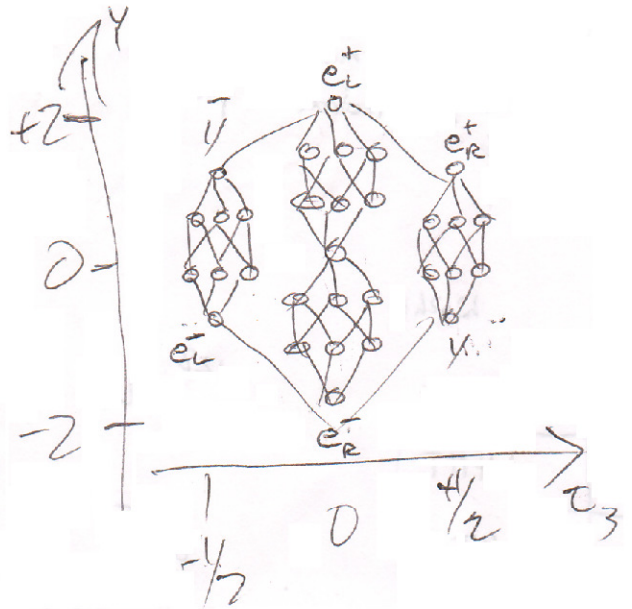
fermion



boson

α electron

photon



h6h5h4

trihepton

h3h2h1

HHH HHT HTH THH HTT THT TTH TTT

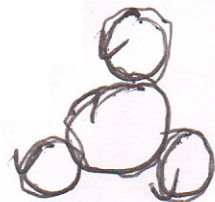
	e^+	μ^+	τ^+	$\bar{\nu}$	$\bar{\nu}$	$\bar{\nu}$	
	u	c	t	b	s	d	HHH
	u	c	\bar{e}	b	s	d	HHT
	u	c	t	b	s	d	HTH
	\bar{d}	\bar{s}	\bar{b}	\bar{t}	\bar{c}	\bar{u}	TTH
	\bar{d}	\bar{s}	\bar{b}	\bar{t}	\bar{c}	\bar{u}	THT
	\bar{d}	\bar{s}	\bar{b}	\bar{t}	\bar{c}	\bar{u}	THH
	ν	ν	ν	\bar{e}	$\bar{\mu}$	e^-	TTT

128

16L

$\sqrt{\frac{4\pi}{N}}$

"traverse"



$Q = \frac{1}{3}(h_1+h_2+h_3)+h_4+h_5+h_6$

$t_3 = \frac{1}{2}(h_4+h_5+h_6-h_7)$

$Y = \frac{2}{3}(h_1+h_2+h_3)+h_4+h_5+h_6+h_7$

$U(1) \times SU(2) \times SU(3) \rightarrow N \quad 246 \text{ GeV}$

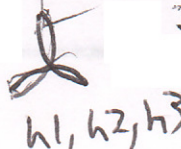
$B \quad W^{1,2,3} \quad G^{1,8} \quad M_t \quad 174$

$M_H \quad 125$

$M_Z \quad 91$

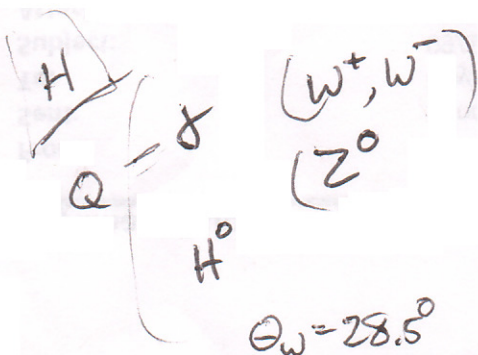
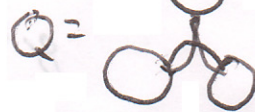
$M_{W^\pm} \quad 80$

3



h_1, h_2, h_3

$Q = t_3 + \frac{1}{2}$



$\theta_w = 28.5^\circ$