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Name	Composition	Mass (MeV)	Q	S	В
UP	u	2.2	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{3}$
DOWN	d	4.7	$-\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{3}$
CHARM	c	1.2k	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{3}$
STRANGE	s	96	$-\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{3}$
TOP	t	173k	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{3}$
BOTTOM	b	4k	$-\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{3}$

Table 1: Table of quarks.

Name	Composition	Mass (MeV)	Q	S
ELECTRON	e	0.5	-1	$\frac{1}{2}$
E-NEUTRINO	$ u_e$	~ 0	0	$\frac{1}{2}$
MUON	μ	105	-1	$\frac{1}{2}$
M-NEUTRINO	$ u_{\mu}$	~ 0	0	$\frac{1}{2}$
TAU	au	1.7k	-1	$\frac{1}{2}$
T-NEUTRINO	$ u_{ au}$	~ 0	0	$\frac{1}{2}$

Table 2: Table of leptons.

Name	Composition	Mass (MeV)	Q	S
GLUON	g	0	0	1
PHOTON	γ	0	0	1
Z-BOSON	W^0	91k	0	1
W-BOSON	W^\pm	80k	± 1	1
HIGGS	H	125k	0	0

Table 3: Table of bosons.

Name	Composition	Mass (MeV)	Q	S	В	I_3	J^{PC}
π^+	$u\overline{d}$	140	+1	0	0	+1	0-
π^-	$dar{u}$	140	-1	0	0	-1	0-
π^0	$\frac{u\bar{u}-d\bar{d}}{\sqrt{2}}$	135	0	0	0	0	0-+
ρ^+	$uar{d}$	775	+1	1	0	+1	1-
ρ^-	$dar{u}$	775	-1	1	0	-1	1-
$ ho^0$	$\frac{u\bar{u}-d\bar{d}}{\sqrt{2}}$	775	0	1	0	0	1
η_c	$car{c}$	3k	0	0	0	0	0+-
η_b	$b ar{b}$	9k	0	0	0	0	0+-
K^+	$u\bar{s}$	490	+1	0	0	$\frac{1}{2}$	0-
K^-	$s \bar{u}$	490	-1	0	0	$-\frac{1}{2}$	0-
K^0	$\frac{d\bar{s}-s\bar{d}}{\sqrt{2}} \\ c\bar{d}$	500	0	0	0	$\frac{1}{2}$	0-
D^+	$car{d}$	1.8k	+1	0	0	$\frac{1}{2}$	0-
D^-	$dar{c}$	1.8k	-1	0	0	$-\frac{1}{2}$	0-
D^0	$c ar{u}$	1.8k	0	0	0	$-\frac{1}{2}$	0-
$ar{D}^0$	$u\bar{c}$	1.8k	0	0	0	$\frac{1}{2}$	0-
B^+	$u ar{b}$	5k	+1	1	0	$\frac{1}{2}$	0-
B^0	$dar{b}$	5k	0	1	0	$\frac{1}{2}$	0-

Table 4: Table of mesons.

Name	Composition	Mass (MeV)	Q	S	В	I_3	J^{PC}
p	uud	938	+1	$\frac{1}{2}$	1	$\frac{1}{2}$	$\frac{1}{2}^{+}$
n	udd	940	0	$\frac{1}{2}$	1	$-\frac{1}{2}$	$\frac{1}{2}^{+}$
Σ^+	uus	1190	+1	-1	1	1	$\frac{1}{2}^{+}$
Σ^-	dds	1190	-1	-1	1	1	$\frac{1}{2}^{+}$
Σ^0	uds	1190	0	-1	1	1	$\frac{1}{2}^{+}$
Λ^0	uds	1115	0	-1	1	0	$\frac{1}{2}^{+}$
Ω^-	sss	1.6k	-1	$\frac{1}{2}$	1	0	$\frac{3}{2}^{+}$

Table 5: Table of baryons.