STANDARD MODEL VARIANTS (E2)

u Up	C Charm	t Top	u Antiup	C Anticharm	t Antitop
d Down	S Strange	b Bottom	d Antidown	- S Antistrange	b Antibottom

e -	μ⁻	τ -	e +	μ ⁺	τ ⁺
Electron	Muon	Tau	Positron	Antimuon	Antitau
V _e Electron Neutrino	V _μ Muon Neutrino	ν _τ Tau Neutrino	V e Electron Antineutrino	Ψ μ Muon Antineutrino	

g Gluon γ Photon **Z** Z⁰ Boson **W**+ W⁺ Boson **W**-W- Boson

H Higgs

Elementary Fermions Elementary Antifermions Quarks

1	II	III	I	II	III
2.16 MeV	1.27 GeV	172.69 GeV	2.16 MeV -2/3	1.27 GeV	172.69 GeV
/s // ₂	1/2	1/2	1/2	1/2 _	1/2
u	С	t	u	С	t
Up	Charm	Тор	Antiup	Anticharm	Antitop
4.67 MeV	93.4 MeV	4.18 GeV	4.67 MeV	93.4 MeV	4.18 GeV
-1/s 1/2 _	-1/s 1/2	-1/3 1/2	1/3 1/2	1/2 1/2	1/2 1/2
d	S	b	d	S	b
Down	Strange	Bottom	Antidown	Antistrange	Antibottom

Leptons							
1	II	III	1	II	III		
0.51 MeV -1 ½ e-	105.66 MeV -1 ½ µ-	1.78 GeV -1 ½ T	0.51 MeV 1 1/2 e ⁺	105.66 MeV 1 ½	1.78 GeV 1 ½		
Electron	Muon	Tau	Positron	Antimuon	Antitau		
< 1.10 eV > 0 ½	< 0.19 MeV > 0 ½	< 18.20 MeV > 0 ½	< 1.10 eV > 0	< 0.19 MeV > 0 ½	< 18.20 MeV > 0 ½		
\mathbf{v}_{e}	ν _μ	$\mathbf{v}_{_{_{\boldsymbol{ au}}}}$	v _e	V _µ	$\mathbf{v}_{_{_{\boldsymbol{ au}}}}$		
Electron Neutrino	Muon Neutrino	Tau Neutrino	Electron Antineutrino	Muon Antineutrino	Tau Antineutrino		

Eleme Gauge Bosons	entary Bo	sons Scalar Bosons
0.00 eV 0 1 g Gluon		125.25 GeV 0 0 H Higgs
> 0.00 eV > 0 1 y Photon	'	
20 Boson		

80.38 GeV 1 W+ W⁺ Boson

80.38 GeV -1 1 **W**-W- Boson

+ ² / ₃ ¹ / ₃	-1/ ₃ 1/ ₃
U	d
Up	Down

+ ² / ₃ ¹ / ₃	+ ² / ₃ ¹ / ₃	+ ² / ₃ ¹ / ₃
u Up	C Charm	t Top
d Down	-½ ½ S Strange	-½ ½ b Bottom

1/ ₃ 2/ ₃	1/ ₃ 2/ ₃	1/ ₃ 2/ ₃	1/ ₃ -2/ ₃	1/ ₃ -2/ ₃	1/ ₃ -2/ ₃
U	C	t	Ü	C	t
Up	Charm	Top	Antiup	Anticharm	Antitop
1/ ₃ -1/ ₃	1/ ₃ -1/ ₃	1/ ₃ -1/ ₃	1/ ₃ 1/ ₃	1/ ₃ 1/ ₃	1/ ₃ 1/ ₃
d	S	b	d	S Antistrange	b
Down	Strange	Bottom	Antidown		Antibottom