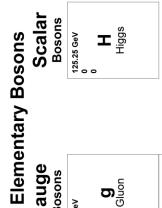
## STANDARD MODEL OF ELEMENTARY PARTICLES (D4)

Photon

4.67 MeV -1/3 1/2

> 0.00 eV > 0 1



0.00 eV 0

**G**luon

Gauge Bosons

me	ntary Fer	mions	Elementary Fermions Elementary Antifermions	tary Antif	ermions
		ğű	Quarks		
	=	=	-	=	=
	1.27 GeV	172.69 GeV	2.16 MeV	1.27 GeV	172.69 GeV
	7,3	7,3	-/3 //2	-/3 /2	-/3 /2
	ပ		<b>5</b>	ပ	_
пр	Charm	Тор	Antiup	Anticharm	Antitop
	93.4 MeV	4.18 GeV	4.67 MeV	93.4 MeV	4.18 GeV
	<b>(</b>	م ،	ا <b>ت</b>	ا <b>ن</b> رو	 2
Down	Strange	Bottom	Antidown	Antistrange	Antibottom

2.16 MeV 2/3 1/2

tons	=	1.78 GeV  7  T+  Antitau	<pre>&lt; 18.20 MeV &gt; 0 %</pre>
	=	105.66 MeV 1 7/2  LL Antimuon	<0.19 MeV > 0 % — V V Muon Antineutrino
	_	0.51 MeV 1 % ••• Positron	<ul> <li>&lt;1.10 eV</li> <li>&gt;0</li> <li>V</li> <li>Electron</li> <li>Antineutrino</li> </ul>
Leptons	≡	1.78 GeV 1 % Tau	<pre>&lt; 18.20 MeV &gt; 0 % V Tau Neutrino</pre>
	=	105.66 MeV 7.7 IL Muon	<0.19 MeV >0.7 V V Muon Neutrino
	-	0.51 MeV -1 % ••• Electron	<ul> <li>4.10 eV</li> <li>50</li> <li>Ve</li> <li>Electron</li> <li>Neutrino</li> </ul>

W<sup>+</sup> Boson

80.38 GeV 1 1

**Z** Z<sup>o</sup> Boson

91.19 GeV 0 1

**W**- Boson

80.38 GeV -1

## Key:

Elementary Particle Representation:

Particle Symbol
Particle Name

- 1 Invariant Mass,  $m_0$ , in GeV/ $c^2$ , MeV/ $c^2$  and eV/ $c^2$  (Units Simplified on Diagram)
- 2 Electric Charge, Q, in e
- **3** Spin, *S*

## **Units:**

eV: Electronvolt

- e: Elementary Charge

## Sources:

- Invariant Mass, 1 [1]
- Electric Charge, 2 [1]
- Spin, 3 <sup>[1]</sup>
- Particle Symbol [1]
- Particle Name [1]