STANDARD MODEL OF ELEMENTARY PARTICLES (D4)

Scalar Bosons	≈124.97 GeV/c² 0 Higgs
Elementary Bosons auge Scal	
Eleme Gauge Bosons	Gluon

Bosons	Gluon	o 1 Photon	=91.19 GeV/G² 0 1 Z Doson	*80.39 GeV/c² 1 W+ W* Boson	*80.39 GeV/c² -1 W. Boson

Eleme	ntary Fer	mions	Element	Elementary Fermions	ermions
		Que	Quarks		
-	=	≡	-	=	≡
≈2.2 MeV/c² 2/3	≈1.28 GeV/c² ⅔	≈173.1 GeV/c²	≈2.2 MeV/c² -²/₃	≈1.28 GeV/c² -2/₃	≈173.1 GeV/c² ²₃
5	ပ	,	ı ت	ا ن	,
d	Charm	Тор	Antiup	Anticharm	Antitop
≈4.7 MeV/c² -1⁄3	≈96 MeV/c² -⅓	≈4.18 GeV/c² -⅓	≈4.7 MeV/c² ⅓	≈96 MeV/c² ⅓	≈4.18 GeV/c² ⅓
7,	%	ď	ر م	[%] ۱ ۵	ي.
Down	Strange	Bottom	Antidown	Antistrange	Antibottom

	=	z1.7768 GeV/c² 1 7 Antitau	-18.2 MeV/c² 0 % V V V Tau Antineutrino
	=	*105.66 MeV/c² *1.	26.17 MeV/c ² 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ons	-	©0.511 MeV/c² 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42.2 eVic² 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Leptons	=	#1,7768 GeV/c²	<18.2 MeV/c² % V Tau Neutrino
	=	≈106.66 MeV/c² -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	co.17 MeV/c² 0 γ V μ Muon Neutrino
	-	=0.511 MeV/c² -1 % © Electron	variation (2.2 eV/c² variation) (2.2 eV/c² v

Key:

Elementary Particle Representation:

1 2 3

Particle Symbol

Particle Name

- 1 **Invariant Mass**
- 2 Electric Charge
- 3 Spin

Sources:

- Invariant Mass, 1^[citation needed]
- Electric Charge, 2^[citation needed]
 Spin, 3^[citation needed]
- Particle Symbol^[citation needed]
- Particle Name^[citation needed]