## Standard Model of Elementary Particles

## three generations of matter (fermions)

interactions / force carriers (bosons)

≃1.28 GeV/c²
<sup>2</sup>/<sub>3</sub>
<sup>1</sup>/<sub>2</sub> C

charm

≃173.1 GeV/c²
<sup>2</sup>/<sub>3</sub>
<sup>1</sup>/<sub>2</sub>

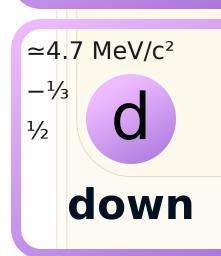
top

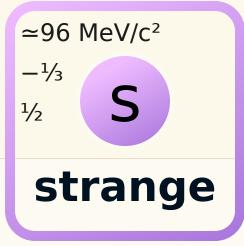
Ш

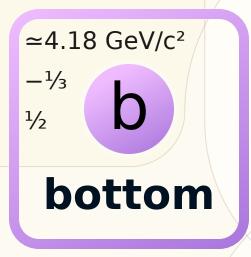
0 0 1 **G** gluon ≃124.97 GeV/c²
0
H
higgs

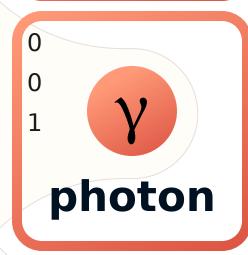
OUARKS

**EPTONS** 

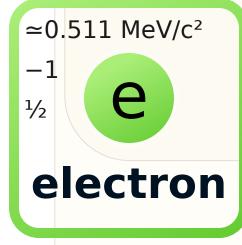


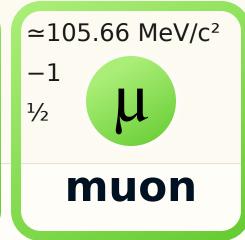


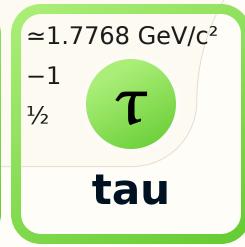


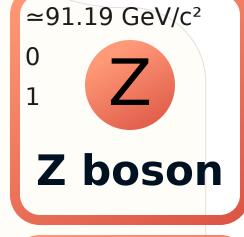












≈80.39 GeV/c<sup>2</sup>

W boson

 $\pm 1$ 



<1.0 eV/c²
0
1/2
Ve
electron
neutrino

