

Fermion Periodic Table

(all spin $\frac{1}{2}$)

| | 0 | -1 | -1/3 | +2/3 |
|----------|--------------------------|----------------------|--|-------------------------------|
| 1 | ν_e < 3 eV | e^- 511 keV | d 6 ± 3 MeV | u 3 ± 2 MeV |
| 2 | ν_μ < 190 keV | μ^- 106 MeV | s $.12 \pm .05$ GeV | c 1.2 ± 0.1 GeV |
| 3 | ν_τ < 18.2 MeV | τ^- 1.78 GeV | b $4.2 \pm .2$ GeV | t 174 ± 5 GeV |
| | neutrinos | charged leptons | down-type quarks | up-type quarks |
| | Leptons | | Quarks | |
| | no strong interactions | | only bound states: mesons(2), baryons(3) | |

Boson Periodic Table

| Gravity | E & M | Strong | Weak | (mass) |
|--------------------|--|---------------------------------|--------------------------|------------------------------|
| | | | W^- 80.4 GeV J=1 | |
| G 0(?) J=2 | γ $<2 \times 10^{-16}$ eV J=1 | g 0(?), 8 bicolours J=1 | Z^0 91.2 GeV J=1 | H^0 >113.5 GeV J=0 |
| | | | W^+ 80.4 GeV J=1 | |
| The Four Forces | | | | |