

Hadron Multiplets

Cambridge HEP Graduate Lectures on Flavour Physics

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A few of my github repositories for producing

- **Feynman diagrams** <https://github.com/matthewkenzie/feynmans>
a wrapper for the \LaTeX [axodraw](https://github.com/matthewkenzie/axodraw) package which will produce and then compile some 'tex' code
- **Hadron Isospin diagrams** <https://github.com/matthewkenzie/hadrons>
makes use of [matplotlib](https://matplotlib.org/) to draw the diagrams (with many hacks)

1 Multiplets with just (u, d, s)

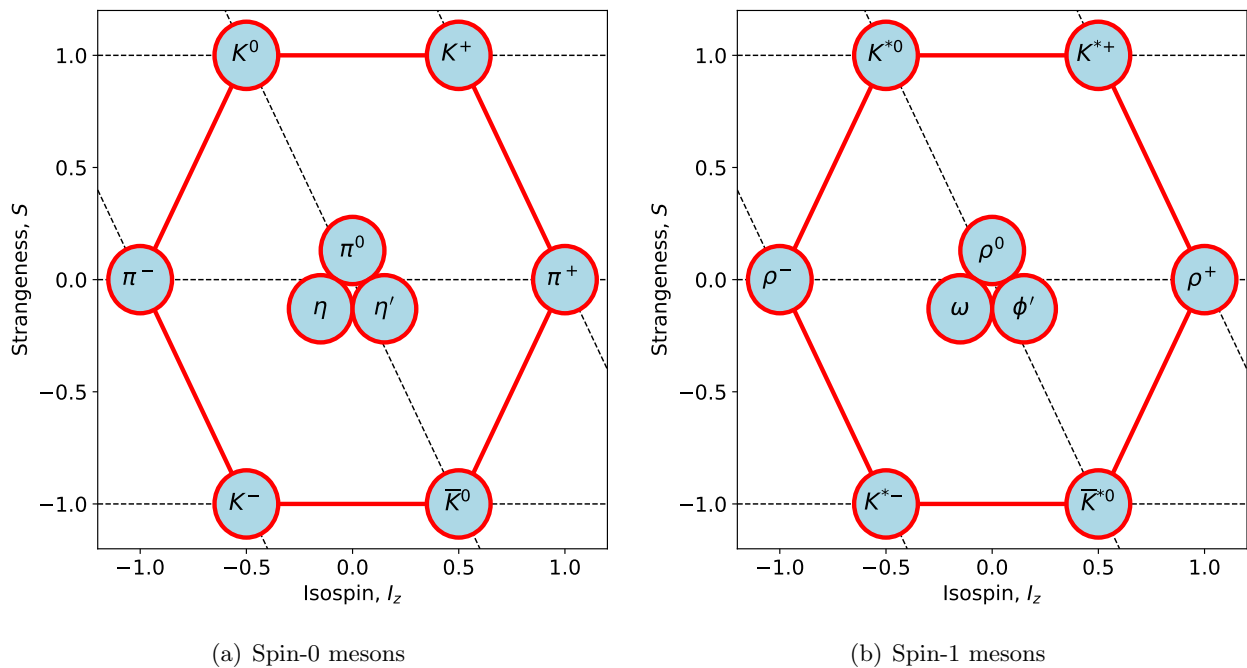
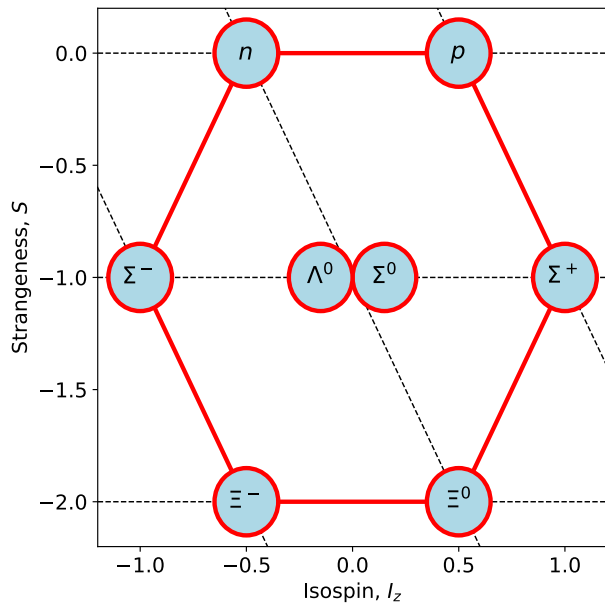
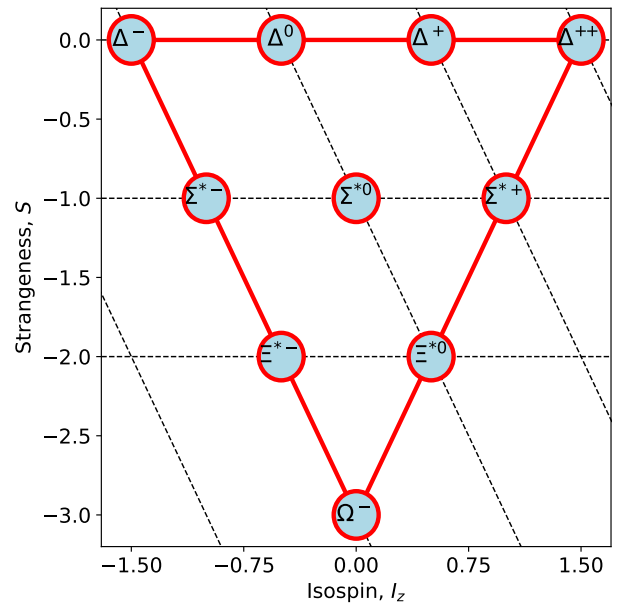


Figure 1: (u, d, s) -combination mesons



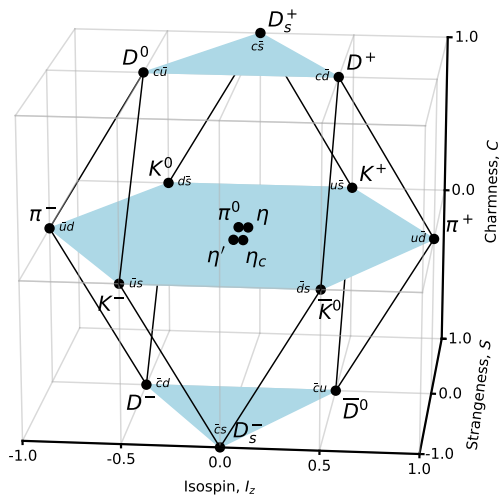
(a) Spin-1/2 baryons



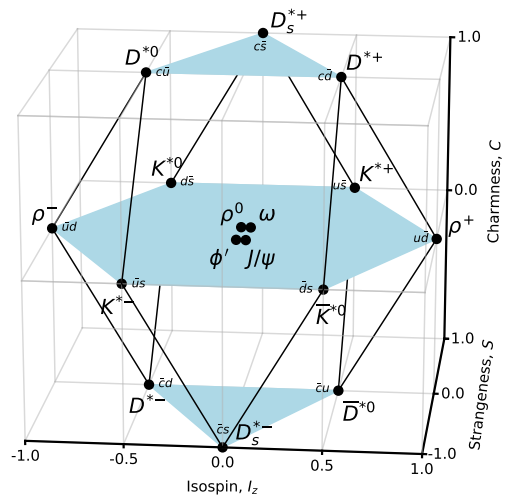
(b) Spin-3/2 baryons

Figure 2: (u, d, s) -combination baryons

2 Multiplets with (u, d, s, c)



(a) Spin-0 mesons



(b) Spin-1 mesons

Figure 3: (u, d, s, c) -combination mesons

