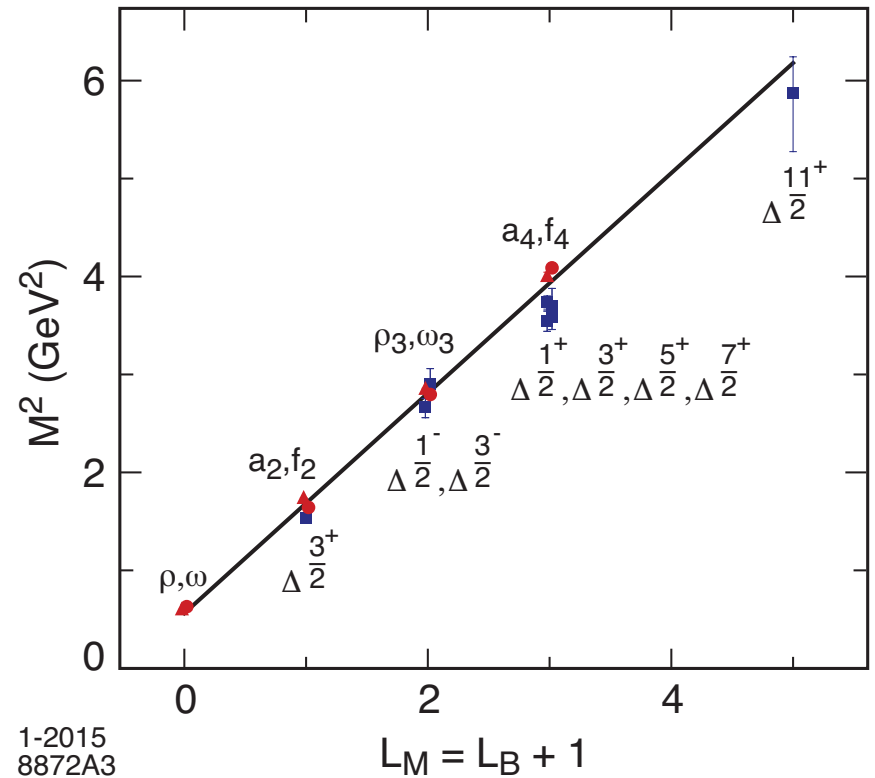
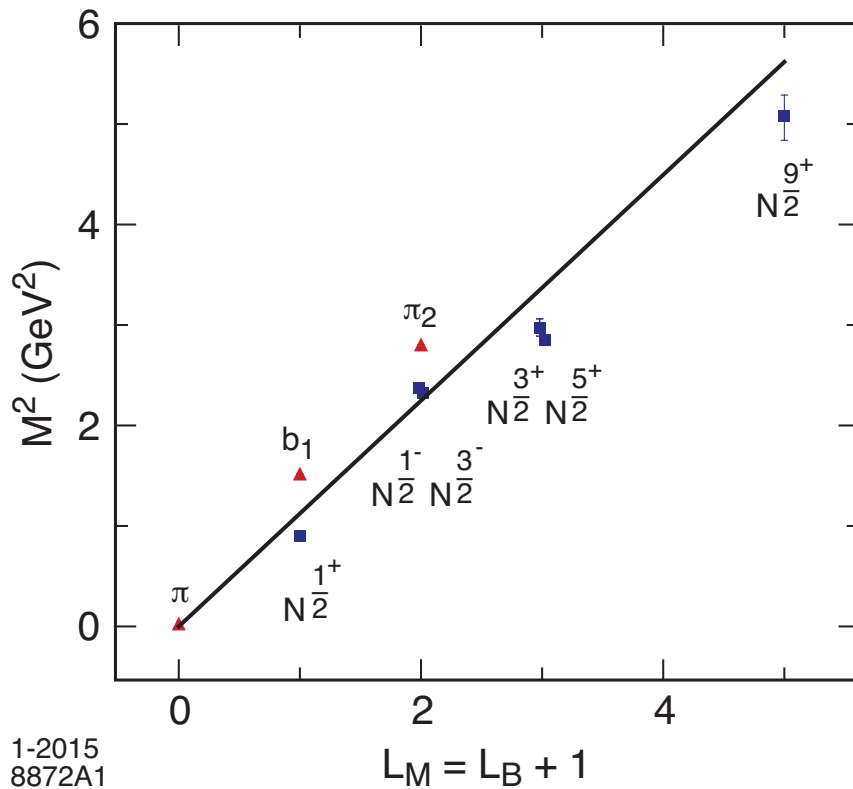


- Superconformal spin-dependent Hamiltonian to describe mesons and baryons (chiral limit)

[S. J. Brodsky, GdT, H. G. Dosch, C. Lorcé, PLB **759**, 171 (2016)]

$$G = \{R_\lambda^\dagger, R_\lambda\} + 2\lambda S \quad S = 0, 1$$

Mesons : $M^2 = 4\lambda (n + L_M) + 2\lambda S$, Baryons : $M^2 = 4\lambda (n + L_B + 1) + 2\lambda S$



Superconformal meson-nucleon partners: solid line corresponds to $\sqrt{\lambda} = 0.53 \text{ GeV}$