$$L_{\gamma} = l_{\gamma} + S_{\gamma},$$
 $S_{\gamma} = 1, P_{\gamma}, I_{\gamma}$
 $S_{M} = 0, P_{M} = (-1)^{l_{M}+1},$
 $I_{M} = 1/0$
 $I_{M} = 1/0$
 $I_{M} = \pi, \eta, \eta', \dots$
 $I_{M} = \pi, \eta,$