Homework 6 (15 points)

- 1. In the I_3 and Y plane present the groups of $J^p = 0^-$ and $J^p = 1^-$ mesons.
- 2. In the I_3 and Y plane present the groups of $J^p = \frac{1}{2}^-$, $J^p = \frac{1}{2}^+$ and $J^p = \frac{3}{2}^+$ groups of baryons.
- ${f 3}$. Calculate the generators of SU $({f 2})$ group acting on spin eigenstates.