L=1 1-7 0 -1 ML 5= 1/2 (-) 2.1/2+1=2/ Doubet. ms=+/2 o~ -/2 25+1=4 25+1=2

Alonic terms fo-3P 3P 3P 150 most slable Ms=0 | > 5=0 | > 1 ML=2 | > 1 ML=+2,+1,0,-1,-2 L=2 -> + ML = (2 m., 1,0,-1,-2) $\begin{array}{c|c} M_S = +1 \\ M_L = +1 \end{array} \begin{array}{c} S = 1 \\ L = 1 \end{array} \begin{array}{c} 2S + 1 \\ L = 3 \end{array} P$ 5=1 $M_S=+1,0,-17$ S L=1 $M_L=+1,0,-15$ $M_s = +0$ -7 = 0 - 7 = 0P 3P D 5 L, 5=0

 $\frac{O - 1 - 2}{1 + 1} M_{L} \left(\frac{2(+1) \cdot (2) + 1}{5 \times 2} = \frac{O}{1 + 1} + \frac{O}{1 + 1} +$ 5=2+2= 5/2 |-> 6 5=2-1/2=3/21-74 $\frac{6.5.4}{6}$ = 20 $\frac{6.5}{5} = 15$ Ms=1,0,-1 t-0- 4 +1 +1-1-5 My

if 5 & L one de sone -> 5. 2 $\frac{1-2}{1}$ $\frac{3}{2}$ $\frac{10.9}{2}$ = 45 +2+10-1-2 2/0 +1+1-

Ms + 1,0,-1 Mc +1,0,-1