$$\begin{array}{c} N, V, \lambda = 1 \\ N, \lambda =$$

$$\begin{vmatrix} \frac{3}{2}, \frac{3}{2} \rangle = |1, \frac{1}{2} \rangle$$

$$\begin{vmatrix} \frac{3}{2}, \frac{1}{2} \rangle = |\frac{2}{3}|0, \frac{1}{2} \rangle + |\frac{1}{3}|1, -\frac{1}{2} \rangle$$

$$\begin{vmatrix} \frac{1}{2}, \frac{1}{2} \rangle = -|\frac{1}{3}|0, \frac{1}{2} \rangle + |\frac{1}{3}|1, -\frac{1}{2} \rangle$$

$$\begin{vmatrix} \frac{1}{2}, \frac{1}{2} \rangle = -|\frac{1}{3}|0, \frac{1}{2} \rangle + |\frac{1}{3}|1, -\frac{1}{2} \rangle$$

* (On whim of sosting
$$|0,1\rangle$$
 $-|\frac{1}{2}|$)
$$\frac{\sqrt{\frac{12}{3}}}{(-\sqrt{\frac{1}{3}})^{2}} = 2$$

#\
$$\frac{\sigma(\pi^{+}P)}{\sigma(\pi^{-}P)} = 3$$

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T^{-} + P \rightarrow T^$$

$$|j=1-\frac{1}{2},n\rangle = -\sqrt{\frac{1-m+\frac{1}{2}}{2j+1}}|n-\frac{1}{2},\frac{1}{2}\rangle + \sqrt{\frac{1-m+\frac{1}{2}}{2j+1}}|n+\frac{1}{2}\rangle + \sqrt{\frac{1-m+\frac{1}{2}}{2j+1}}|n+\frac{1-m+\frac{1}{2}}{2j+1}\rangle + \sqrt{\frac{1-m+\frac{1}$$

$$\frac{\left(\frac{1}{2},\frac{1}{2}\right)}{\left(\frac{1}{3},\frac{1}{2}\right)+\left(\frac{1}{3},\frac{1}{2}\right)+\left(\frac{1}{3},\frac{1}{2}\right)-\frac{2}{3}\left(\frac{1}{2},\frac{1}{2}\right)}$$

$$\frac{\left(\frac{3}{2},\frac{1}{2}\right)+\left(\frac{1}{3},\frac{1}{2}\right)-\frac{1}{3}\left(\frac{1}{2},-\frac{1}{2}\right)}{\left(\frac{1}{2},\frac{1}{2}\right)}$$

$$\frac{1}{3}$$

V.V.):
#1 SU(3) irrep (4,0) $D(m,n) = \frac{1}{4}(m+1)(m+2)(n+1)(n+2)$ $-\frac{1}{4}m(m+1)n(n+1)$ Solving for all $\frac{1}{4}(4+1)(4+1)(1)(2)$ Solving for all A numerical Solver A (5)(6)(2) A numerical Solver A (5)(6)(2) A numerical Solver A (1,2) as an irreducible representation



