

$$|Y_{11}\rangle = |nlms\rangle = |n\rangle \otimes |l\rangle \otimes |m\rangle \otimes |s\rangle$$

$$|Y_{12}\rangle = \frac{1}{2} (1) |1\rangle + \frac{1}{2} (1) |1\rangle$$

$$= \frac{1}{2} (1) |1\rangle + \frac{1}{2} (1) |1\rangle$$

< w 1 7>= }