

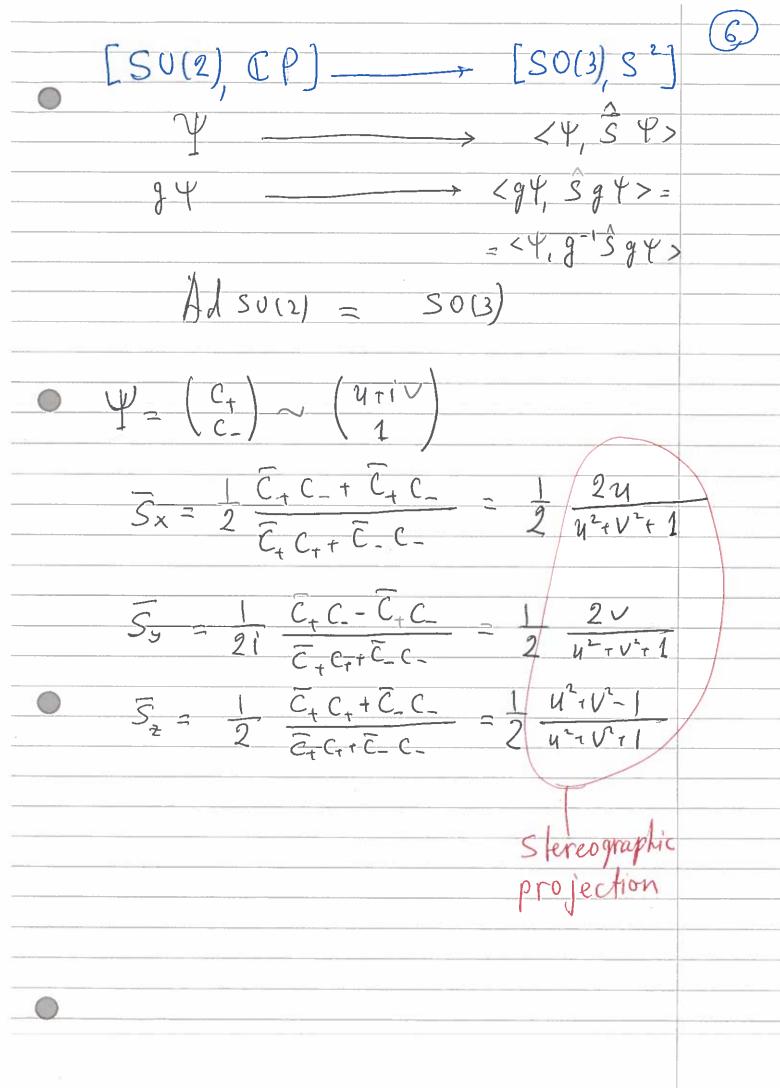
Example 71= C2 (9) $Y = \begin{pmatrix} a \\ b \end{pmatrix} = a \begin{pmatrix} 0 \\ 1 \end{pmatrix} + b \begin{pmatrix} 0 \\ 1 \end{pmatrix} = a \begin{pmatrix} 1 \\ 1 \end{pmatrix} + b \begin{pmatrix} 0 \\ 1 \end{pmatrix}$ $\hat{S}_{x} = \frac{1}{2} \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}, \hat{S}_{y} = \frac{1}{2} \begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix}, \hat{S}_{z} = \frac{1}{2} \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ Sx - measures x-component of spihor bx, by, bz - Pauli matrices Sy - measurer y-component of spinor Sz - measurer Z-component of spinor [SKSm]= Exmn Sn (15x, 15x, 15z - generators of Lie algebra SU(2)) Let 4 = (0)=1 $\hat{S}_{z} = \frac{1}{2} \hat{S}_{x} = \frac{1}{2} (1 + 1), \quad \hat{S}_{y} = \frac{1}{2} (1 + 1)$ Sz-component of Y is equal to 1/2

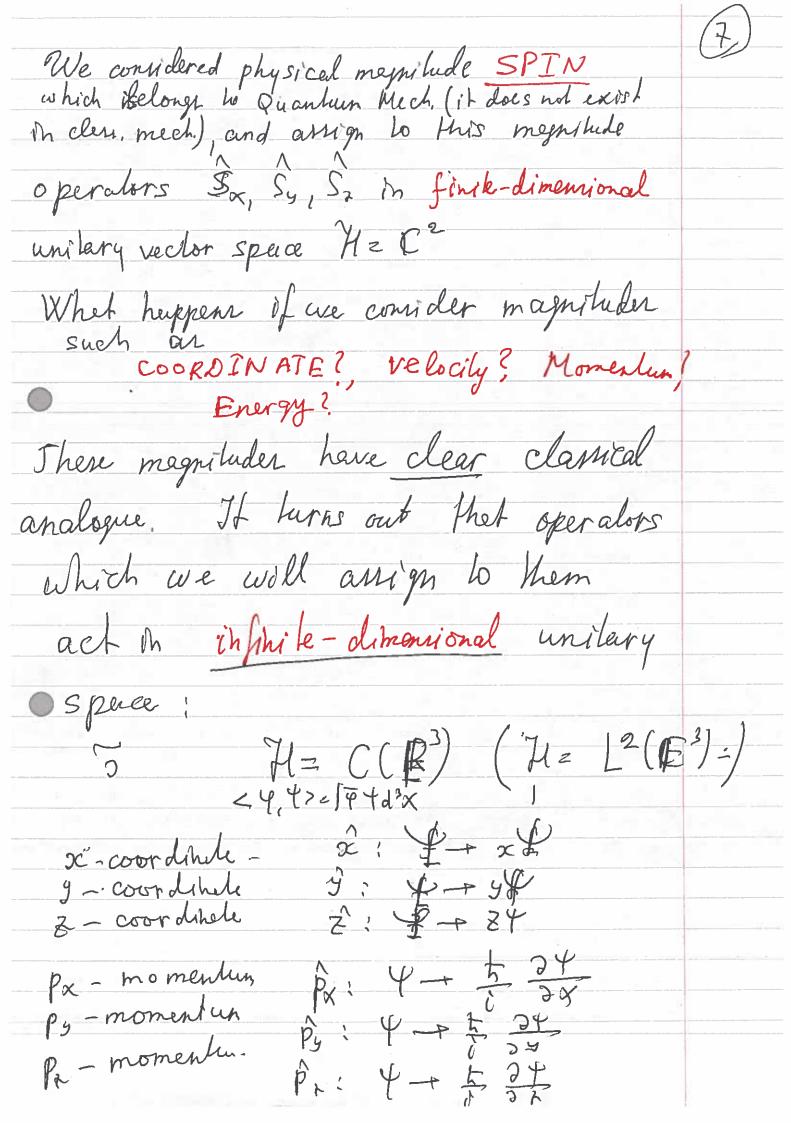
1s equal to 1/2 with probability 1/2

Sx-1) - "

1s equal h -1/2 with probability 1/2, If Y= ECm Ym and F the value of F is for, then after tahis measurement system will be in the state 4= 4m

$$\frac{\Psi}{C_{-}} = \frac{C_{+}}{C_{+}} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) = \frac{C_{+}}{C_{+}} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) = \frac{C_{+}}{C_{+}} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-} \left(\begin{array}{c} c_{+} \\ c_{-} \end{array} \right) + C_{-$$





 $= \int \frac{1}{\sqrt{2x}} \frac{2x}{\sqrt{2x}} \frac{4d^3x}{\sqrt{2x}} = -\frac{1}{\sqrt{2x}} \int \frac{2x}{\sqrt{2x}} \frac{4d^3x}{\sqrt{2x}} =$ Here we assume that Tig-oat inpuly. (at) $-\int \overline{\psi}\left(\frac{1}{2}\frac{\partial \psi}{\partial x}\right)d^{3}x=\langle \psi, \hat{p_{x}}\psi\rangle$ We see that pr is self-adjoint but under condition (0)

Another problem:

i/x Y = x Y - Y = E it = 2f y = S(x-2)

One can say that these functions

11 DO NOT EXIST" (They do not belong to the space. What to do??!