

2.1 Let

$$S_x \doteq \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

and write the S_x eigenvalue equations in matrix notation

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = +\frac{\hbar}{2} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix} = -\frac{\hbar}{2} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

which yields

$$\begin{aligned} a+b &= +\frac{\hbar}{2} & c+d &= +\frac{\hbar}{2} \\ a-b &= -\frac{\hbar}{2} & c-d &= +\frac{\hbar}{2} \end{aligned}$$

Solve by adding and subtracting the equations to get

$$a=0 \quad b=\frac{\hbar}{2} \quad c=\frac{\hbar}{2} \quad d=0$$

Hence the matrix representing S_x in the S_z basis is

$$S_x \doteq \frac{\hbar}{2} \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$$

Let

$$S_y \doteq \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

and write the S_y eigenvalue equations in matrix notation

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ i \end{pmatrix} = +\frac{\hbar}{2} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ i \end{pmatrix}$$

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -i \end{pmatrix} = -\frac{\hbar}{2} \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -i \end{pmatrix}$$

which yields

$$\begin{aligned} a+ib &= +\frac{\hbar}{2} & c+id &= +i\frac{\hbar}{2} \\ a-ib &= -\frac{\hbar}{2} & c-id &= +i\frac{\hbar}{2} \end{aligned}$$

Solve by adding and subtracting the equations to get

$$a=0 \quad b=-i\frac{\hbar}{2} \quad c=i\frac{\hbar}{2} \quad d=0$$

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