

Mathematics Program II
Advanced Algebra
Department of Mathematics, University of Mississippi
Math 375 (Fall 2012) Exam

10/1/12

1. Show that the eigenvalues and eigenvectors of $A_1 = \begin{bmatrix} 2 & 0 \\ 0 & 1 \end{bmatrix}$ together are identical to those of the spin state $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$. If A_2 is identical, what is the probability of the result $\frac{1}{2}\hbar$?

Solution:

$$A_1 = \begin{bmatrix} 2 & 0 \\ 0 & 1 \end{bmatrix} \quad \text{and} \quad A_2 = \begin{bmatrix} 2 & 0 \\ 0 & 1 \end{bmatrix}$$

$$A_1 \begin{bmatrix} 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 2 \\ 0 \end{bmatrix} = 2 \begin{bmatrix} 1 \\ 0 \end{bmatrix}$$

The probability of finding the value $\frac{1}{2}\hbar$ is

$$P = \left| \langle \frac{1}{2}\hbar | \begin{bmatrix} 1 \\ 0 \end{bmatrix} \rangle \right|^2 = \left| \begin{bmatrix} 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 1 \\ 0 \end{bmatrix} \right|^2 = \left| \frac{1}{2}\hbar - 0 \right|^2 = \left| \frac{1}{2}\hbar \right|^2 = \frac{1}{4}\hbar^2$$

2. (a)

- (i) Commuting the \hat{L}_x in \hat{L} means that

$$[\hat{L}_x, \hat{L}_x] = 0$$

where \hat{L}_x is a Hermitian operator and \hat{L} is a linear (Hermitian) operator with real eigenvalues.

- (ii) Show that \hat{L} is Hermitian and commutative.
 (iii) As given, in the \hat{L} problem, we have a linear operator \hat{L} and its Hermitian adjoint \hat{L}^\dagger . Show that \hat{L} is Hermitian and commutative. Show that \hat{L} is Hermitian and commutative. Show that \hat{L} is Hermitian and commutative. Show that \hat{L} is Hermitian and commutative.

(b)

$$\hat{L}^\dagger \hat{L} = \hat{L} \hat{L}^\dagger = \hat{L}^2$$

$$\hat{L}^\dagger \hat{L} = \hat{L} \hat{L}^\dagger = \hat{L}^2$$

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