

What I call the Probability Postulate (# 4 on McIntyre's list):

The probability of obtaining the value  $a_n$  in a measurement of the observable  $A$  on the system in the state  $|\psi\rangle$  is:

$$\mathcal{P}_{a_n} = |\langle a_n | \psi \rangle|^2$$

where  $|a_n\rangle$  is the eigenstate of  $A$  corresponding to the value  $a_n$ ."