Lecture 6

Review Quantum Mechanics

QM Linea Algebra in a complex vector space.

State of a system is a vector (ray) in the Complex Vector Space.

$|\alpha\rangle$ - state vector

Linear Superpositions

$$|\Psi\rangle = c_1 |\alpha_1\rangle + c_2 |\alpha_2\rangle$$

Ifs the $|\alpha' s\rangle$ are vectors and the c's are complex numbers, then $|\Psi\rangle$ is another vector in the space.