

Electrodynamics and Quantum Mechanics Summer Assignment Overview

The summer assignment for the Electrodynamics and Quantum Mechanics course has two parts. Please do them in order! There will be a major test on the summer assignment during the first week of school.

Complex 2-D Vector Space Arithmetic

We will start off the course studying and modeling the simplest quantum systems possible. These are 'two state' systems described by fundamental measurements that have only two possible outcomes and they are modeled using the mathematics of two-dimensional complex vector spaces with Hermitian inner product. So it is essential that students have good command of the arithmetic of operations on these vector spaces (not to mention the properties of and computation with complex numbers).

Initial Assessment:

There will be a major TEST during the first week of school.