

PHYS3130 : Modern Physics

Basic ideas of quantum theory which led to the Rutherford-Bohr model of the atom, elementary quantum mechanics using Schrodinger's equation with applications to atoms, molecules, nuclei and elementary particles will be studied. Topics include: atomic and molecular spectra; ionic and covalent bonds; theory of alpha, beta and gamma decay, and quantum statistics of Bose and Fermi particles.

Credits 3

Concurrent

PHYS3130L

Prerequisite Courses

PHYS2120

Corequisite Courses

PHYS3130L