

CHM 120 - UNIT 6 OUTLINE

Objectives for Unit 6:

EARLY DISCOVERIES

Ernest Rutherford's Nuclear Model

MASS SPECTROMETRY

THE WAVE NATURE OF LIGHT

ELECTROMAGNETIC RADIATION

THE RELATIONSHIP: $c = \lambda\nu$

SPECTROSCOPY

ENERGY OF PHOTONS

PHOTOELECTRIC EFFECT

$$E = h\nu = hc/\lambda$$

BOHR'S MODEL

ATOMIC ENERGY LEVELS

MATTER AS WAVES

de Broglie WAVE-PARTICLE DUALITY OF NATURE

WAVE FUNCTIONS

QUANTUM NUMBERS

ORBITALS