

PH1530: Electrons

Learning Outcomes:

After this course you are expected to:

- Understand what is meant by thermionic emission
- Understand the principle behind a velocity selector
- Know how e/m can be measured (Thomson's experiment)
- Know how e can be measured (Millikan's oil drop experiment).

Reading:

All references refer to Young and Freedman, 'University Physics with Modern Physics', 11th Edition.

(Optional problems on the material in these chapters can be found at the end of the relevant chapter).

- Section 27.4 – Motion of Charged Particles in a Magnetic Field
- Section 27.5 – Applications of Motion of Charged Particles