Paper 1: The Positive Electron – Particle Physics – Summer 2016

N. Berger, F. Wauters

hand in: Mo 9.5. (in the lecture)

Reference: The Positive Electron, Carl D. Anderson, Phys. Rev. 43, 491 (1933)

1.1 Why the lead plate?

- 1.2 What is *pile-up* for this experiment?
- **1.3** Why can't the particle seen be a proton?
- 1.4 Why is the limit on the charge $< 2 \times e$?
- 1.5 What is a likely process for a cosmic ray muon to create a positron?
- 1.6 What other particle has Anderson discovered?