

PHYSICS 535, Spring 2016 – ASSIGNMENT 10

Problems Due 4/22

- 1) Calculate “A” and “B” constants (from slide 7 of lecture 34) for values of parameters given for the “weak” and “strong” streamers of Figure 3.2 in Bazelyan.
- 2) Numerically solve the Diff. Eqs of slide 8 of lecture 34 to reproduce Figures 3.2a and 3.2b.
- 3) Generate two more figures (similar to slide 4 of lecture 34) giving n_e , ρ , and E for the weak and strong streamers (in SI units).