

Physics 22 Problem Set 2

Harry Nelson

due Monday, April 11 at 5pm

Course Announcements:

Reading for these Problems: KK Chapter 12, RHK4 Chapter 21 (we'll emphasize 21-8 and 21-9 on Friday, April 8).

PSR Fellows, who are advanced Physics Majors, are available to help you in the PSR Wed. & Thurs. from 6-8pm, and Sunday in 1640 Broida, 6-8pm.

1. KK 12.1
 2. KK 12.2
 3. KK 12.5
 4. KK 12.10
 5. KK 12.13
 6. KK 12.14
 7. (RHK4 21.37) Show that $1 \text{ kg}\cdot\text{m}/\text{s} = 1.875 \times 10^{21} \text{ MeV}/c$.
 8. (RHK4 21.39) Calculate the speed parameter of a particle with a momentum of $12.5 \text{ MeV}/c$ if the particle is:
 - (a) an electron
 - (b) a proton.
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