

Problem Set 9

Due date: Tuesday, April 20, 6PM. The homework contains 6 problems and will carry 60 points (10 points each, as usual). You may bring your homeworks to class or drop them in my mailbox in front of the Physics Department office. No late homework will be considered.

- 1) Jackson Problem 12.1
- 2) Problem 12.5
- 3) Problem 12.9
- 4) Problem 12.14
- 5) Problem 14.4
- 6) Problem 14.12

In part a) of 12.1, note that you need to integrate over proper time. In part b), consider Eqns. 12.33f in Jackson.