Phys 410

Fall 2015

Homework #12

This Homework will NOT be collected

All problems are from Taylor, *Classical Mechanics*.

- 1) Problem 15.22 Sideways velocity transformation
- 2) Problem 15.31 Rapidity
- 3) Problem 15.39 The absolute past
- 4) Problem 15.54 Classical momentum is not conserved in a collision
- 5) Problem 15.57 Radioactive decay mass change
- 6) Problem 15.58 Relativistic speed
- 7) Problem 15.61 Relativistic energy and speed
- 8) Problem 15.62 Relativistic momentum and speed
- 9) Problem 15.74 Relativistic decay
- 10) Problem 15.79 Relativistic F = ma