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 $F = ma$