Oberlin College Physics 212, Fall 2018

Assignment 2

Wednesday, 12 September

Take-home exam instead of problems next week. The take-home exam will cover relativity.

Reading: Continue reading about relativistic energy and momentum in the notes and, if necessary, in the books on reserve.

Problems: Due Friday, 21 September (because there’s no class on Wednesday, 19 September, Yom Kippur). These problems are from the “Notes on Relativistic Dynamics”.

1. Notes problem 2.4: Relativistic energy and momentum, I
2. Notes problem 4.1: Sticky particles
3. Notes problem 4.3: Sticky particles and the classical limit
4. Notes problem 5.4: Sticky particles, II