

PHY4222 Mechanics 2
Spring Term 2024
Homework Problem Set 9

Due Wednesday April 17, 11:59 pm.

Reading: Chapter 15 Special Relativity. Sections 15.8, 15.9, 15.12, 15.13, 15.18.

Problem 1. Rapidity. Problem **15.30**★ from the textbook.

Problem 2. Scalar product of four-momenta. Problem **15.36**★ from the textbook.

Problem 3. Four-momenta of particles. Problem **15.53**★★ from the textbook.

Problem 4. Lorentz invariance in E&M. Problem **15.101**★ from the textbook.

Problem 5. No more HW after this one! Problem **15.107**★★ from the textbook.