

## **HOMEWORK 9**

**Due:** Tuesday, April 18

Problems: Relativistic Mechanics

(Griffiths, Section 12.2)

12.33, 12.34, and 12.36

### **Problem 9**

A photon of energy  $E_0$  was absorbed by particle, initially at rest in the frame  $S$ . Calculate the particle velocity, if its rest mass is  $m_0$ .