

Review of Special theory of relativity, Lorentz transformations, Four Vectors, choice of units, fixed target vs collider experiments, Variables: Rapidity, Psuedorapidity, Feynman Scaling variable etc.

References:

1. Introduction to Elementary Particles by D Griffiths

2. Quarks & Leptons: An Introductory Course In Modern Particle Physics by Francis Halzen , Alan D. Martin