Chapter 4

The Short Baseline Near Detector and The Booster Neutrino Beam

Chapter 4 Opening

4.1 The Short-Baseline Near Detector Physics Program

4.2 The Short-Baseline Near Detector

4.2.1 Time Projection Chamber

4.2.2 Photon Detection System

Photomultiplier Tubes

is coated on foils placed on the cathode, which reflect the incident photon back towards the PDS located behind the anode. This also shifts the wavelength of the photon which

X-ARAPUCAs

- 4.2.3 Cosmic Ray Taggers
- 4.2.4 Data Acquisition
- 4.2.5 Trigger
- 4.3 The Booster Neutrino Beam
- 4.4 Concluding Remarks