

KS0 production at the Main Injector Particle production experiment at Fermilab

Monday, 10 June 2013 16:37 (18 minutes)

The Main Injector Particle Production (MIPP) experiment at Fermilab is a full acceptance spectrometer to measure hadronic particle production using beams of π^\pm , K^\pm , p and \bar{p} ranging in momentum from 5 to 120 GeV/c incident on Liquid-Hydrogen, Beryllium, Carbon, Bismuth, Uranium and NuMI targets. The experiment has excellent charged particle identification using Time Projection Chamber (TPC), Time of Flight (ToF), multicell Cherenkov, RICH detector and Calorimeters. A technique to reconstruct K_S^0 has been developed and will be described. We present the preliminary inclusive cross-section result for the production of K_S^0 from the interaction of 84 GeV/c protons with Liquid-Hydrogen target and 120 GeV/c protons with Carbon, Beryllium, Bismuth targets.

Primary author: Mr SINGH, Amandeep (Punjab University, Chandigarh)

Presenter: Mr SINGH, Amandeep (Punjab University, Chandigarh)

Session Classification: Session 2