

Activity at BNL

- Analysis Work
 - Calibrations
 - pnn2 (1997)
 - pnn2 (2002)
- Detector Work
 - Beam package
 - Upstream EC,CO
 - T-counters?
 - Counting house infrastructure

BNL Analysis Status

- Calibrations
 - RS energy (+higher order corrections)
 - Target: E, t, CCD
 - TD: t, shapes
- Pnn2
 - 1997
 - 2002

Calibrations

- Target

- ADC energy and TDC time done
- CCD energy and time done
- CCD shapes started
- SWATHCCD mostly done
- SWATHCCD in KOFIA needs tuning
- Pre-Swath fitting not started

Calibrations (cont.)

- TD

- TD time done
- TD shapes done
- Fitpi4 mostly done

Calibrations (cont.)

- RS energy

- Km22 calibration needs work
- Absolute energy scale next
- Run-by-run (rsmon) started by Jim
- Spill-by-spill (rsmon)
- Very Large Array (rate, tis) started by Jim

Calibrations (cont.)

- Bad runs

- Non-smx done
 - Needs code
- 1-spill runs under study
- Known bad runs ongoing
- Possible bad runs (glitch_log) needs study

Pnn2 (E787, 1997)

- see TN-391
 - Background can be lowered by x2
 - or Acceptance increased by x1.6
- Background = 0.81(0.73), Acc=0.00194(.00119)
 - However, analysis cannot account for 2 short range(energy) events in Kp2 momentum peak
- PV_rej (is it possible to measure better?)
 - pv_rej=217 (240 in 1/3 of 1996, 160 in 2/3)
 - What about in E949?
 - Also need to tune cuts for pnn2

1997 Pnn2 (cont.)

- Is background level low enough?
 - See discussion of pv_rej
 - In 1996 Kp2 scatter background went from 0.35 to 0.62 (1/3 to 2/3)
- Presentation at next Video meeting (hopefully)

Pnn2 (E949, 2002)

- Need Benji to finish Km22 calibration
- Classification of pnn2 events
 - No Fitpi? What other cut? Need muon time.
- Understand E949 PV capability
 - Verify PV systems and set cuts
 - Tune PV cuts on Kp2 scatter events?
 - Design new E949 trigger

Detector Work

- Beam package
 - Removed this summer
 - B4 shipped to TRIUMF
 - Need 8 more splitters, ADC's, etc.
- EC,CO
 - Fibers and cables restored, EC bases glued
 - New CO installed and checked out OK
- T-counters
 - Need further study from Nikolai (5% loss/6 mo.?)
 - Built 3 new counters (replace 6,7,11?)
 - Risk of removing UTC?

Detector Work (cont.)

- Counting House
 - New electronics for dE/dx counter
 - Repair/upgrade Alarm System
 - Repair SSP's, SFI's, TDC's?
 - Computer, disk upgrades?
- Separator
 - LESB2#2 refurbished to replace LESB3#1
 - Refurbish LESB3#1 on hold
- Siemans
 - Repaired; commissioning scheduled for end of October
- RHIC run starting up