P. Schacht, 29.6.00.

JUNE 00 Run

June 00 Run

...excuse...: having been at CERN only before and after the data taking (the run stopped due to SPS problems earlier) i am the wrong person to report ....

Data taken
...following the proposal from Andreij Kiryunin...

- Energy Scans at points G,J,K in the energy range 10-200 GeV for pions and for electrons (30 and 50 missing)
- Partial Energy Scans at other points C-O for pions and for electrons, i.e. position scan for these points (missing electrons in A,B)
- horizontal (y=0,+88) and vertical (x=+70,-70) scans with electrons 150 GeV
- horizontal (y=0) and vertical (x=0) scan with pions of 150 GeV
- position scan with muons of 180 GeV in points C-O
- position scan with muons of 120 GeV in points G,J,K (other points missing)
- horizontal (y=0) and vertical (x=+70,-70) scan with muons of 180 GeV
- for some data (crack region/pad boundary) 32 time slices

June 00 Run

Data missed - to be done in august run

- Special HV studies: electrons of 150 GeV and pions of 200 GeV
  runs with only EST1 or EST2 or PAD1 or PAD2 HV (for all modules)
- HV curve (electrons 150 GeV and pions 200 GeV): e.g. 500, 1000, 1200, 1400, 1500, 1600, 1700 and 1800.
- Energy Scans (electrons and pions): add 30 and 50 GeV
- position scans (electrons and muons): more 120 GeV data
- Energy Scans: try electrons of 5 (?) GeV

June 00 Run

Problems

- HV Problems:
  - WARM only ... disappeared in cold: SFM1 PAD2 1-8
  - showed up in COLD: CR27 EST2 33-40
  - showed up after warming up: CF18 EST1 9-24 (after trip at 1 kV)
  - HV test right after mating of modules is required!
  - Monitor HV trips during test (testbeam or technical run)
- Electronics (Noise OK!!)
  - channel 60: dead !!! Died between 0530 and 0607
  - channel 43: sometimes dead ! No calibration
  - channel 102: bad in 0530, but back from 0607 on
  - channel 131: pedestals were floating
  - For run 9555-9576: FEB3 channels not fully operational (connectors were wet)
  - No calibration because of bad generator (no exponential!): 167,168,191,192,195,196,219,220.
  - Few noisy channels ($\sigma > 5\ ADC$): 71,95,96,99,100,104,108,131,188.
- purity: Mainz: 240 ppb, deterioration: 3 ppb per day (was 5 ppb per day in 98)

  but:O2 meter: 1.3 ppm, more or less constant. We actually had a leak in the purity-HV-feedthru which i closed temporarily only.....??????

- get T-probes on modules (in time before closing the cryostat!)
- mechanics: mating of modules partially critical: tolerances of alignment (mating frame $\Rightarrow$ shipping frame $\Rightarrow$ tie rod $\Rightarrow$ Cu-plates) may sometimes add up and get critical!