July Test Beam 2011 - Run List

July 31, 2011

1 $PbWO_4$ matrix

- table coordinates for crystal matrix page 52
  channels x1 - x7 → c1 to c5 - c8 - c9 upstream
  channels x8 - x14 → s1 to s5 - s8 - s9 downstream

- Calibration with 180 GeV electron beam
  Not optimal beam condition: logbook page 53 - runs 4878 - 4884
  Optimal beam condition: logbook page 160 - runs 5552 - 5558

- Position Scan with 180 GeV electron
  logbook page 53
  runs 4878 + (4886 - 4893)

- Energy Scan with electrons in the central crystal, 100 Kevt per point
  logbook page 54 (not optimal beam condition) + 161
  180 GeV - runs 4878 + 4894 (not optimal)
  180 GeV - runs 5559 + 5560
  150 GeV - runs 4895 + 4896
  120 GeV - runs 4897 + 4898
  100 GeV - runs 4899 + 4901
  80 GeV - runs 4902 + 4903
  60 GeV - runs 4905 + 4906 + 4912 (not optimal)
  60 GeV - runs 5561 + 5562
  40 GeV - runs 4914 + 4915
  20 GeV - runs xxxxxxxx
  15 GeV - runs 5325 + 5326
  10 GeV - runs 5339 + 5342
  6 GeV - runs 5343 + 5344 + 5345

2 Newdream Pavia

- geometry of pavia module logbook page 70
  cabling map logbook page 74
  channels x1 - x4 → c1 to c4
  channels x8 - x11 → s1 to s4
  channels L1 - L5 → Neutron counters

- Calibration of NewDreamPV measurements with 180 GeV electrons
  logbook page 99
  T1 - run 5202
  T2 - run 5204
  T3 - run 5199
  T4 - run 5201

- Position scan on the surface transverse to the fiber length
  180 GeV electrons
  grid of points see page 102 and 106
  data table page 103 and 108
  runs from 5205 to 5226

- Angular scan at small angles (± 2) 180 GeV electrons
  data table page 110
  runs from 5241 to 5260

- Energy scan with electrons at 1 degrees
  180 - 150 - 120 - 100 - 80 - 60 -40 - 30 - 20 - 15 - 10
  data table pages 115 and 125 (democratic wobbling) 131 (20 GeV wobbling)
  runs from 5261 to 5317 (democratic wobbling)
  runs from 5325 to xxxx (20 GeV wobbling)
  180 GeV - runs 5261 + 5262 + 5264 + 5265 + 5266
  150 GeV - runs 5302 + 5304 + 5305
  120 GeV - runs 5294 + 5306 + 5307
  100 GeV - runs 5288 + 5289 + 5290
  80 GeV - runs 5291 + 5292 + 5293
  60 GeV - runs 5268 + 5285 + 5287
  40 GeV - runs 4308 + 5309 + 5310 + 5311
  30 GeV - runs 5313 + 5314 + 5315
  20 GeV - runs 5317 + 5434 + 5435
  15 GeV - runs 5331 + 5332 + 5333 + 5335
  10 GeV - runs 5336 + 5337 + 5338
  6 GeV - runs 5347 + 5348 + 5349 + 5350 + 5351

- Longitudinal Scan over 2m of lead module
  80 GeV electrons

data table page 141 logbook
runs from 5393 to 5416

- Pion run with Neutron counters
  180 GeV pion
  data table page 143 logbook
  runs from 5421 to 5424 (neutron read with ADC)
  runs from 5425 to 5433 (neutron read with DRS)

3 Newdream Pisa

- Calibration of NewDreamPV measurements with 80 GeV electrons
  logbook page 149
  T1 - run 5461
  T2 - run 5460
  T3 - run 5459
  T4 - run 5458
  center - run 5462

- Position scan on the surface transverse to the fiber length
  180 GeV electrons
  grid of points see page 150
  data table page 151 and 152
  runs from 5463 to 5483

- Position scan on the surface transverse to the fiber length
  180 GeV muon
  grid of points see page 150
  data table page 158 and 159
  runs from 5525 to 5546

- Longitudinal Scan over 2m of lead module
  180 GeV electrons
  data table page 154 logbook
  runs from 5484 to 5506

- Energy scan with electrons at 1 degrees
  180 - 120 - 100 - 60 - 30 - 20
  data table pages 156 runs from 5511 to 5521