MC Runs Summary PII

Summary of Beamtest MC runs for pipeline II

Where to find them

Merged files on ftp u37
Datacatalog : Select "beam test" and "MC" then click update to see the "BT-Tasks" group

Best Data/MC to use : BTR v9r14r07p3 LPM (0.10X0 at PS and 0.075X0 at SPS)

Electrons

- DATA : v9r1407p3-DATA
- MC PS : v9r1407p3-LPM_010X0
- MC SPS: v9r1407p3-LPM_0075X0

E /Theta	0	10	20	30	45	60
1.0	1259	N/A	N/A	1220	N/A	N/A
2.5	1433	N/A	N/A	1222	N/A	N/A
5.0	1460	1476	1485	1493	1504	1505
10.	2338	2343	2348	2353	2357	2359
20.	2082	2087	2092	2096	2100	2103
50.	2039	2044	2050	2054	2058	2064
100.	1981	1988	1993	1999	2003	2006
196.	1911	1892	1898	1902	1906	1909
280.	1922	1932	1938	1942	1946	1949

Hadrons - BTR v9r14r07p3

- List of available tags
  - MC QGSP_BERT : QGSP (>20Gev), BERT (<10GeV), old LPM, no extra X0, PS and SPS runs
  - MC LPM_0075X0: QGSP (>20Gev), BERT (<10GeV), new LPM, 0.075 X0, SPS runs only
  - MC LPM_010X0 : QGSP (>20Gev), BERT (<10GeV), new LPM, 0.10 X0, PS runs only
  - MC LHEP_0075X0 : LHEP (default), old LPM, 0.075 X0, SPS runs only
  - MC LHEP_010X0 : LHEP (default), old LPM, 0.10 X0, PS and SPS runs
  - DATA : reprocess data

E /Theta	0	45	90
6.0	1423		
10.	1419		
20.	2237		
100.	2363	2364	2365
150.	1755		

BTR v9r14r07p3 custom

Material scan and Test LPM implementation

The following runs have been simulated with different configurations (watch out, tags are screwy...).

- 45 degrees runs are available only for LPM_005X0 and LPM_0075X0.
- v9r14r07p3L-QB_10X0 : LPM Off and 0.20X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff
- v9r14r07p3L-QB_005X0 : LPM Off and 0.05X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff
- v9r14r07p3L-QB_010X0 : LPM Off and 0.10X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff
- v9r14r07p3L-QGSP_BERT : Test LPM , 1.2MeV LAC, 64 Hits GTRC Buff
- **v9r14r07p3-LPM_005X0** : Test LPM and 0.05X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff
- **v9r14r07p3-LPM_0075X0** : Test LPM and 0.10X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff
- **v9r14r07p3-LPM_010X0** : Test LPM and 0.10X0 of Lead at the end of the beam line, 1.2MeV LAC, 64 Hits GTRC Buff

E /Theta	0	10	20	30	45
10.	2338	2343	2348	2353	2357
20.	2082	2087	2092	2096	2100

50.	2039	2044	2050	2054	2058
100.	1981	1988	1993	1999	2003
196.	1911	1892	1898	1902	1906
280.	1922	1932	1938	1942	1946

Hadrons - v9r14r07p3 - QGSP_BERT (LPM Off, 1.2MeV LAC, 64 Hits GTRC Buff.)

E /Theta	0	45	90
6.0	1423		
10.	1419		
20.	2237		
100.	2363	2364	2365
150.	1755		

Electrons - v9r14r07p3 - QGSP_BERT (LPM Off, 1.2MeV LAC, 64 Hits GTRC Buff.)

E /Theta	0	10	20	30	45
0.5					
1.0	1259			1220	
2.5	1433			1222	
5.0	1460	1476	1485	1493	
10.	2338	2343	2348	2353	
20.	2082	2087	2092	2096	
50.	2039	2044	2050	2054	
100.	1981	1988	1993	1999	
196.	1911	1892	1898	1902	
280.	1922	1932	1938	1942	

BTR v8r130101p1

Electrons - v8r130101p1 - GLAST

E /Theta	0	10	20	30	45
0.5	1240				
1.0	1259				
2.5	1202-1433				
5.0	1460				
10.	2338				
20.	2082				
50.	2039				
100.	1981				
196.	1911				1906
280.	1922				1946

Electrons - v8r130101p1 - LowEnergy

E /Theta	0	10	20	30
0.5	1240			
1.0	1259			
2.5	1202-1433			
5.0	1460			
10.	2338			
20.	2082			
50.	2039			
100.	1981			
196.	1911			
280.	1922			1942

Electrons 100GeV Gap v8r130101p1 - GLAST

E /Theta	0	10	20	30	45
100.	1983	1991	1995	2001	2005

Protons - v8r130101p1 - GLAST

E /Theta	0	10	20	30
6.0	1423			
10.	1419			
20.	2237			
100.	2363			
150.	1755			