Subject: Psi study of TPC vs STT from july11 release
Posted by donghee on Thu, 21 Jul 2011 08:06:34 GMT
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Dear all,

I have already posted study of psi3770 data, which is produced at Gridka, only tpc mode has been tested and other data are still being produced with stt mode.

Now, I am testing stt mode, first of all, in the level of reconstructed tracks.
I took all scripts and macros from gridka site and pandaroot version is used july11. So, this stt production is same like gridka production and produced to see the difference with tpc mode.

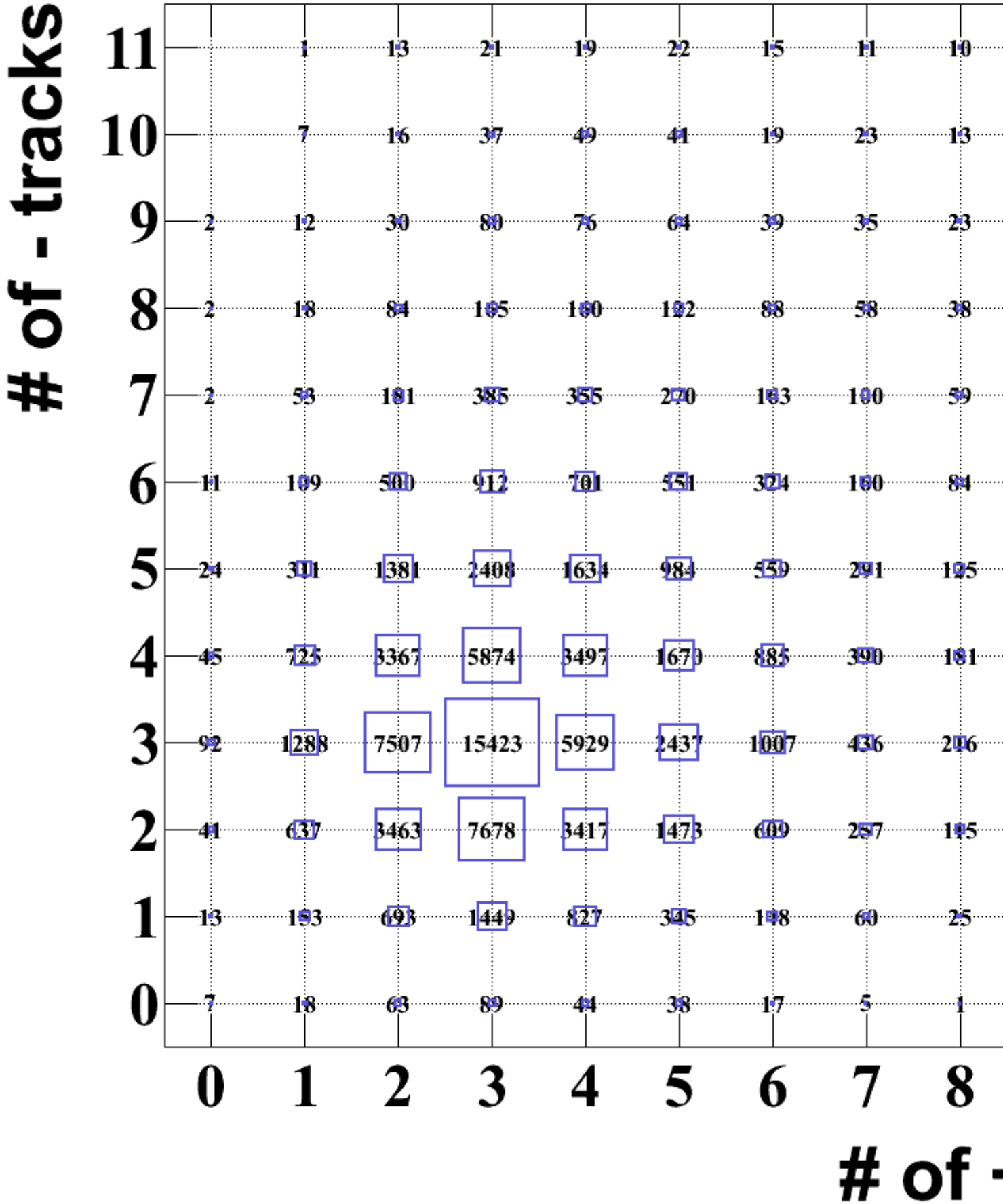
TPC 84500 events.
STT 88000 events.

Please find the plots for the tracks from tpc and stt, identified with pid correlator.
What I want to say is
"Reconstructed track numbers are significantly different"

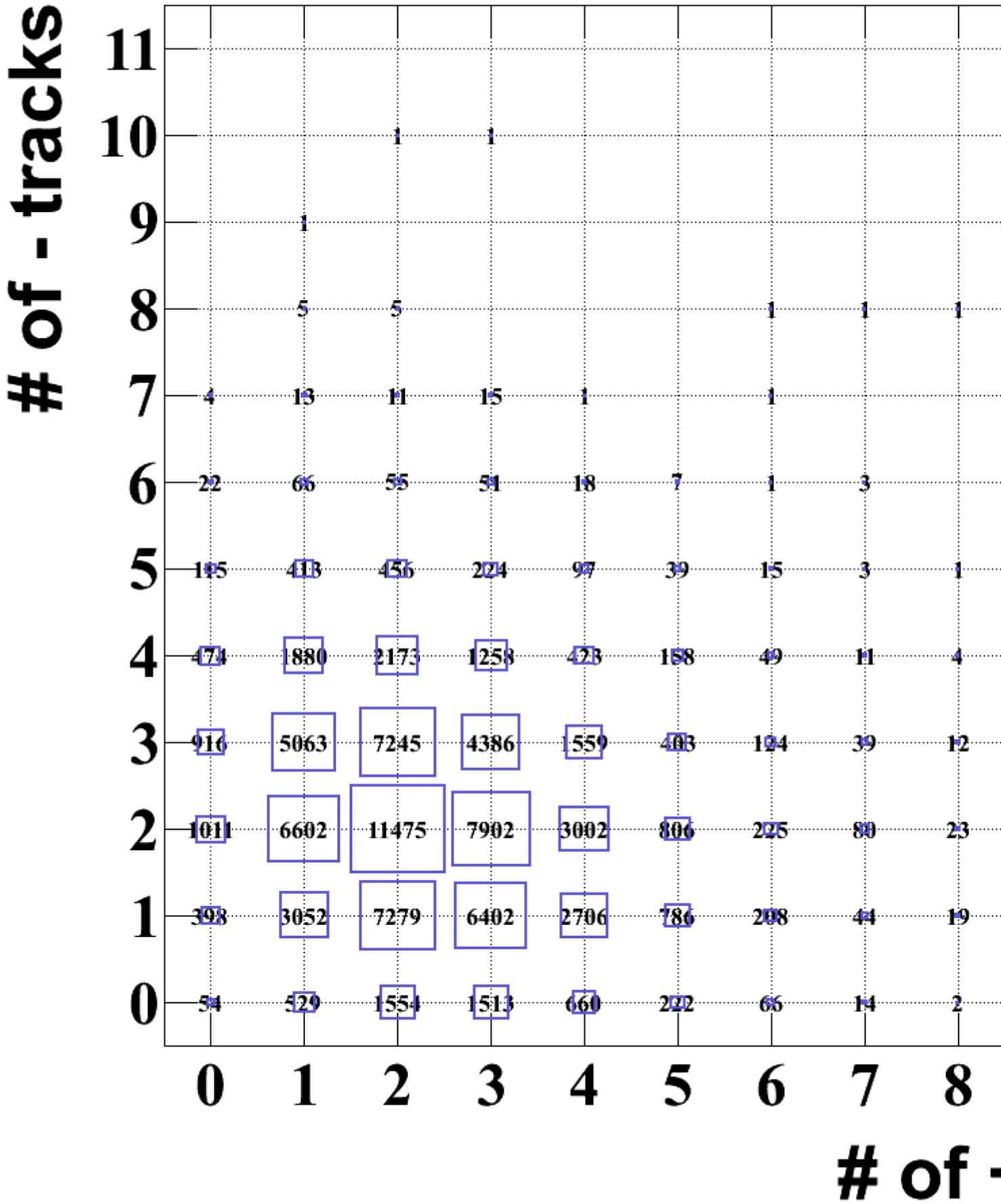
Best wishes,
Donghee

File Attachments

1) tracks_stt.gif, downloaded 1022 times


of - tracks
11
10
9
8
7
6
5
4
3
2
1
0
1 13 21 19 22 15 11 10
7 16 37 49 41 19 23 13
2 12 30 80 76 64 39 35 23
2 18 84 195 190 122 88 58 38
2 53 181 385 355 270 163 100 59
11 109 500 912 701 551 324 160 84
24 331 1381 2408 1634 984 559 291 125
45 725 3367 5874 3497 1670 885 390 181
92 1288 7507 15423 5929 2437 1007 436 206
41 637 3463 7678 3417 1473 609 257 105
13 193 693 1449 827 345 198 60 25
7 18 63 89 44 38 17 5 1
0 1 2 3 4 5 6 7 8
of -

2) tracks_tpc.gif, downloaded 979 times


of - tracks
11
10
9
8
7
6
5
4
3
2
1
0
0 1 2 3 4 5 6 7 8
of -
1 1
1
5 5 1 1 1
4 13 11 15 1 1
22 66 55 51 18 7 1 3
195 413 456 224 97 39 15 3 1
474 1880 2173 1258 423 188 49 11 4
916 5063 7245 4386 1559 403 124 39 12
1011 6602 11475 7902 3002 806 225 80 23
398 3052 7279 6402 2706 786 208 44 19
54 529 1554 1513 660 222 65 14 2