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Subject: Re: problem with TPC recotasks

Posted by [Anonymous Poster](#) on Thu, 27 Mar 2008 10:36:31 GMT

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Hi Sebastian,

>The track finding is done with monte carlo ids in the demo. So if >there have been secondaries they will appear in the track list. >This can in principle even happen for delta electrons!

>Check the momentum of your tracks.

>The momentum that has been reconstructed looks too low in most >cases. At the moment I do not have an idea why this is so.

About the lower values of the momentum for reconstructed tracks may be because the input momentum of protons and pions are low. The Lambda is produced at rest and decays.

Following are some sample evets which I have used:

3

N	Id	Ist	M1	M2	DF	DL	px	py	pz	E	t	x	y	z
0	3122	2	-1	-1	1	2	0.0000	0.0000	0.0000	1.1157	0.0000	0.0000	0.0000	0.0000
1	2212	1	0	0	-1	-1	-0.0408	-0.0498	0.0773	0.9436	52.5078	0.0000	0.0000	0.0000
2	-211	1	0	0	-1	-1	0.0408	0.0498	-0.0773	0.1720	52.5078	0.0000	0.0000	0.0000

1 3

N	Id	Ist	M1	M2	DF	DL	px	py	pz	E	t	x	y	z
0	3122	2	-1	-1	1	2	0.0000	0.0000	0.0000	1.1157	0.0000	0.0000	0.0000	0.0000
1	2212	1	0	0	-1	-1	-0.0965	-0.0033	-0.0281	0.9436	17.8040	0.0000	0.0000	0.0000
2	-211	1	0	0	-1	-1	0.0965	0.0033	0.0281	0.1720	17.8040	0.0000	0.0000	0.0000

2 3

N	Id	Ist	M1	M2	DF	DL	px	py	pz	E	t	x	y	z
0	3122	2	-1	-1	1	2	0.0000	0.0000	0.0000	1.1157	0.0000	0.0000	0.0000	0.0000
1	2212	1	0	0	-1	-1	-0.0718	-0.0704	0.0009	0.9436	130.3815	0.0000	0.0000	0.0000
2	-211	1	0	0	-1	-1	0.0718	0.0704	-0.0009	0.1720	130.3815	0.0000	0.0000	0.0000

Regards,  
Dipak

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