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Subject: Problem with low momentum Pion

Posted by [Vanniarajan Suyam Jothi](#) on Thu, 03 Apr 2008 15:53:06 GMT

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Hello Andrea,

I was implementing a tracking mu- of 1 GeV momenta by taking the momenta and position from the Tpc track to the volume in Emc using the PropagateToVolume call of Geane. The tracking has failed for the small momenta below 0.5 MeV of  $q/p < -2.0$ . As you see here it fails at TRPROP call. Can you tell me where is the problem in this case?

Is it possible to pass a flag for propagation failure instead of such a failure?

```
fEnd =
0xb107c60
Position : (-57., -3.2, -22.)
Angles : Lambda = -0.37, Phi = -2.9
q/p = -1.0
fCovMatrix[0] = 0xb107c60 7.6e-05
fCovMatrix[1] = 0xb107c60 2.4e-05
fCovMatrix[2] = 0xb107c60 -3.3e-06
fCovMatrix[3] = 0xb107c60 -0.00013
fCovMatrix[4] = 0xb107c60 0.00042
fCovMatrix[5] = 0xb107c60 2.2e-05
fCovMatrix[6] = 0xb107c60 -1.8e-06
fCovMatrix[7] = 0xb107c60 -5.8e-05
fCovMatrix[8] = 0xb107c60 0.00038
fCovMatrix[9] = 0xb107c60 2.2e-06
fCovMatrix[10] = 0xb107c60 3.9e-05
fCovMatrix[11] = 0xb107c60 -3.1e-05
fCovMatrix[12] = 0xb107c60 0.00076
fCovMatrix[13] = 0xb107c60 -0.00099
fCovMatrix[14] = 0xb107c60 0.0067
exec CbmGeaneTrLheTpcEmc : 1/29
exec1/29
exec1/29
exec1/29
fStart =
0xb107af0
Position : (5.2, -17., -6.6)
Angles : Lambda = -0.36, Phi = -1.2
q/p = -2.2
fCovMatrix[0] = 0xb107af0 0.00027
fCovMatrix[1] = 0xb107af0 3.7e-05
fCovMatrix[2] = 0xb107af0 -4.7e-05
fCovMatrix[3] = 0xb107af0 0.0
fCovMatrix[4] = 0xb107af0 0.0
fCovMatrix[5] = 0xb107af0 1.8e-05
fCovMatrix[6] = 0xb107af0 -8.1e-06
fCovMatrix[7] = 0xb107af0 3.5e-13
```

fCovMatrix[8] = 0xb107af0 5.4e-14  
fCovMatrix[9] = 0xb107af0 2.7e-05  
fCovMatrix[10] = 0xb107af0 4.6e-09  
fCovMatrix[11] = 0xb107af0 7.0e-10  
fCovMatrix[12] = 0xb107af0 1.6e-07  
fCovMatrix[13] = 0xb107af0 -1.3e-07  
fCovMatrix[14] = 0xb107af0 9.8e-07  
Propagate Helix to Volume

\*\*\* Error in subr. TRPROP 3 called by subr. ERPROP

\*\*\* Break \*\*\* floating point exception  
Using host libthread\_db library "/lib/tls/i686/cmov/libthread\_db.so.1".  
Attaching to program: /proc/22782/exe, process 22782  
[Thread debugging using libthread\_db enabled]  
[New Thread -1223530816 (LWP 22782)]  
0xffffe410 in \_\_kernel\_vsyscall ()  
error detected on stdin  
The program is running. Quit anyway (and detach it)? (y or n) [answered Y; input not from terminal]  
Detaching from program: /proc/22782/exe, process 22782  
Root >  
root [1] .q

Cheers,  
Vanni

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