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Subject: Re: I want to do simulation for pid It is showing warning and error at the time of running

Posted by [Shyam Kumar](#) on Thu, 01 Aug 2013 07:10:18 GMT

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Hi,

I am running reconstruction for 10000 events in simulation but it is showing some errors at the time of running and repetition of errors of such type convergence error and index out of bounds type

Processing reco\_complete.C...

(int)1

FairRootManager::OpenOutFile("reco\_complete.root")

Info in (PndGeoHandling::Instance): Making a new instance using the framework.

fRun->Init()

[INFO ] The input consists out of the following trees and files:

[INFO ] - cbmsim

[INFO ] - sim\_complete.root

[INFO ] - FriendTree\_1

[INFO ] - digi\_complete.root

[INFO ] Parameter and input file are available, Assure that basic info is there for the run!

[INFO ] The number of entries in chain is 10000

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initialisation for run id 1375274735

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-I- FairRunTimeDB::InitContainer() FairBaseParSet

Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...

Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave

Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100

Info in <TGeoManager::Voxelize>: Voxelizing...

Info in <TGeoManager::CountLevels>: max level = 12, max placements = 4896

Info in <TGeoManager::CloseGeometry>: 2008273 nodes/ 5804 volume UID's in FAIR geometry

Info in <TGeoManager::CloseGeometry>: -----modeler ready-----

Container FairBaseParSet initialized from ROOT file.

-I container name PndGeoSttPar

-I container name PndGeoFtsPar

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initialisation for run id 1375274735

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-I- FairRunTimeDB::InitContainer() FairBaseParSet

-I- FairRunTimeDB::InitContainer() PndGeoSttPar

Container PndGeoSttPar initialized from ROOT file.

-I- FairRunTimeDB::InitContainer() PndGemDetectors

Gem\_Disk1\_Gem1\_Sensor\_GEMmixture type 0 has 786 front and 4250 back channels

Gem\_Disk1\_Gem6\_Sensor\_GEMmixture type 2 has 4750 front and 9000 back channels

Gem\_Disk2\_Gem1\_Sensor\_GEMmixture type 0 has 786 front and 5350 back channels

Gem\_Disk2\_Gem6\_Sensor\_GEMmixture type 2 has 5850 front and 11200 back channels

Gem\_Disk3\_Gem1\_Sensor\_GEMmixture type 0 has 786 front and 7150 back channels

Gem\_Disk3\_Gem6\_Sensor\_GEMmixture type 2 has 7650 front and 14800 back channels

PndGemDetectors initialized from Ascii file

-I- FairRunTimeDB::InitContainer() PndSensorNamePar  
Container PndSensorNamePar initialized from ROOT file.  
-I- FairRunTimeDB::InitContainer() PndGeoFtsPar  
Container PndGeoFtsPar initialized from ROOT file.  
PndFieldCreator::SetParm() 0xb86dad0

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initialisation for run id 1375274735

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-I- FairRunTimeDB::InitContainer() FairBaseParSet  
-I- FairRunTimeDB::InitContainer() PndGeoSttPar  
-I- FairRunTimeDB::InitContainer() PndGemDetectors  
PndGemDetectors initialized from Ascii file  
-I- FairRunTimeDB::InitContainer() PndSensorNamePar  
-I- FairRunTimeDB::InitContainer() PndGeoFtsPar  
-I- FairRunTimeDB::InitContainer() PndMultiFieldPar  
Container PndMultiFieldPar initialized from ROOT file.  
OBJ: PndTransPar PndTransPar Trans. Field parameter container  
OBJ: PndDipole1Par PndDipole1Par Dipole Field parameter container  
OBJ: PndDipole2Par PndDipole2Par Dipole Field parameter container  
OBJ: PndSolenoid1Par PndSolenoid1Par Solenoid 1st region parameter container  
OBJ: PndSolenoid2Par PndSolenoid2Par Solenoid 2nd region parameter container  
OBJ: PndSolenoid3Par PndSolenoid3Par Solenoid 3rd region parameter container  
OBJ: PndSolenoid4Par PndSolenoid4Par Solenoid 4th region parameter container  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/TransMap.0890.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/DipoleMap1.0890.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/DipoleMap2.0890.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/SolenoidMap1.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/SolenoidMap2.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/SolenoidMap3.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/shyam/fairsoft/pandaroot/input/SolenoidMap4.root  
-----FairGeane::Init ()-----  
Loading Geant3 libraries ...  
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 323521055 13488A1F HEX

MZSTOR. Initialize Store 0 in /GCBANK/  
with Store/Table at absolute adrs 323630397 323521055  
HEX 134A353D 13488A1F  
HEX 1A72A 0  
relative adrs 108330 0  
with 1 Str. in 2 Links in 5300 Low words in 4999970 words.  
This store has a fence of 16 words.

MZLOGL. Set Log Level 0 for store 0  
1\*\*\*\*\* GEANT Version 3.21/11 Released on 100298  
0\*\*\*\*\* Correction Cradle Version 0.1100

MZDIV. Initialize Division Constant in Store 0  
NW/NWMAX= 20004000000, MODE/KIND= 1 2  
Division 20 initialized.

MZLINK. Initialize Link Area /GCLINK/ for Store 0 NL/NS= 20 20

MZLINK. Initialize Link Area /GCSLNK/ for Store 0 NL/NS= 100 100

-I- G3Config: Geant3 with TGeo has been created for Geane.  
-I- Geane.C: NOPRNT flag set to 1  
-I- Geane.C: IERR flags are not printed. If you want to switch them on, please set  
fErtrio1->noprnt = 0 in Geane.C  
Energy straggling area parameter from user set to: 0.999

Calculating cross section tables, see gphysi.dat for more information

Cross section calculation concluded successfully

-I- FairGeane::FairGeane: Geane is Initialized  
-I- PndTrkTracking: Initialization successfull  
-I- PndTrkTracking: Initialization successfull  
-I- -----  
-I- PndSttMvdGemTracking: using branches MVDHitsPixel MVDHitsStrip STTHit GEMHit  
-I- to change one or more of these use PndSttMvdGemTracking:SetBranchName( TStrings );  
the order of TStrings is mvd pixel name, mvd strip name, stt name, gem name  
starting track for extrapolation SttMvdTrack SttMvdTrackCand  
-I- -----  
-I- PndSttMvdGemTracking: using default PDG -13  
-I- PndSttMvdGemTracking: Intialisation successfull  
-I- PndMCTrackAssociator::Init  
[INFO ] Branch: STTHitMix not found in Tree  
[INFO ] Branch: STTHitMix not found in Tree  
-W- PndMCTrackAssociator::Init: Using STTHit array  
[INFO ] Branch: MVDHitsStripMix not found in Tree  
[INFO ] Branch: MVDHitsStripMix not found in Tree  
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array  
[INFO ] Branch: MVDHitsPixelMix not found in Tree  
[INFO ] Branch: MVDHitsPixelMix not found in Tree  
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel  
-I- PndRecoKalmanTask:Init :: Using GeaneTrackRep  
#####Mapper:filltubearray#####  
fGeoType=1  
\*\*\* PndRecoKalmanFit::Init MVDHitsStrip array found  
\*\*\* PndRecoKalmanFit::Init MVDHitsPixel array found  
[INFO ] Branch: SttHelixHit not found in Tree  
[INFO ] Branch: SttHelixHit not found in Tree  
\*\*\* PndRecoKalmanFit::Init SttHit array found  
\*\*\* PndRecoKalmanFit::Init GEMHit array found  
\*\*\* PndRecoKalmanFit::Init MdtHit array found  
\*\*\* PndRecoKalmanFit::Init FtsHit array found

===PndRecoKalmanFit::Init() finished

=====  
-I- PndMCTrackAssociator::Init

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[INFO ] Branch: MVDHitsStripMix not found in Tree

[INFO ] Branch: MVDHitsStripMix not found in Tree

-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array

[INFO ] Branch: MVDHitsPixelMix not found in Tree

[INFO ] Branch: MVDHitsPixelMix not found in Tree

-W- PndMCTrackAssociator::Init: Using MVDHitsPixel

Warning in <TDatabasePDG::TDatabasePDG>: object already instantiated

-I- PndRecoKalmanTask:Init :: Using GeaneTrackRep

#####Mapper:filltubearray#####

fGeoType=1

\*\*\* PndRecoKalmanFit::Init MVDHitsStrip array found

\*\*\* PndRecoKalmanFit::Init MVDHitsPixel array found

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-W- PndMCTrackAssociator::Init: Using MVDHitsPixel

[INFO ] The number of entries in chain is 10000

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could not convert GenfitTrack to PndTrack

Error in <TDecompSVD::Diagonalize>: no convergence after 21 steps

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\*\*\* ERTRGO \*\*\* Boundary loop: track 1 stack 0 NTMULT 0 MUON +  
Precision now set to 0.250E-04

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Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb145c80)  
Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb13efb0)  
Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb13efb0)  
Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb147220)  
Error in <TArrayF::At>: index 545027 out of bounds (size: 544960, this: 0xb147220)

Error in <TArrayF::At>: index 545026 out of bounds (size: 544960, this: 0xb145c80)  
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