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Subject: Re: Reproduce the result of Pos (Bormio2012) 018  
Posted by [nakulphy](#) on Fri, 28 Mar 2014 08:28:26 GMT  
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hello

I have tried to do as you suggested and I am sending you things which I got. the simulation and digi works but there is some problem with the reco. I am sending you the reco error.

```
nakul@linux-kqx4:~/pandaroot/x3872/x3872> root run_reco_tpcorsttcombi.C
```

```
*****
*                                     *
*   W E L C O M E to R O O T       *
*                                     *
*   Version   5.34/05  14 February 2013  *
*                                     *
*   You are welcome to visit our Web site *
*   http://root.cern.ch                 *
*                                     *
*****
```

```
ROOT 5.34/05 (tags/v5-34-05@48582, Oct 03 2013, 16:35:25 on linuxx8664gcc)
```

```
CINT/ROOT C/C++ Interpreter version 5.18.00, July 2, 2010
```

```
Type ? for help. Commands must be C++ statements.
```

```
Enclose multiple statements between { }.
```

```
root [0]
```

```
Processing run_reco_tpcorsttcombi.C...
```

```
Error in <TClonesArray::SetClass>: called with a null pointer
```

```
FairRootManager::OpenOutFile("reco_sttcombi.root")
```

```
Use detector with STT setup.???
```

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

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

```
[INFO ] - cbmsim
```

```
[INFO ] - digi_sttcombi.root
```

```
[INFO ] - FriendTree_1
```

```
[INFO ] - points_sttcombi.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 10
```

```
*****
```

```
initialisation for run id 1396013441
```

```
*****
```

```
-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 = 4550
```

```
Info in <TGeoManager::CloseGeometry>: 2003695 nodes/ 5810 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

\*\*\*\*\*

initialisation for run id 1396013441

\*\*\*\*\*

-I- FairRunTimeDB::InitContainer() FairBaseParSet

-I- FairRunTimeDB::InitContainer() PndSensorNamePar

Container PndSensorNamePar initialized from ROOT file.

-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() PndGeoFtsPar

Container PndGeoFtsPar initialized from ROOT file.

PndFieldCreator::SetParm() 0x880db90

\*\*\*\*\*

initialisation for run id 1396013441

\*\*\*\*\*

-I- FairRunTimeDB::InitContainer() FairBaseParSet

-I- FairRunTimeDB::InitContainer() PndSensorNamePar

-I- FairRunTimeDB::InitContainer() PndGeoSttPar

-I- FairRunTimeDB::InitContainer() PndGemDetectors

PndGemDetectors initialized from Ascii file

-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/nakul/pandaroot/jan14/input/TransMap.0890.root

[INFO ] PndFieldMap: Reading field map from ROOT file

/home/nakul/pandaroot/jan14/input/DipoleMap1.0890.root

[INFO ] PndFieldMap: Reading field map from ROOT file

/home/nakul/pandaroot/jan14/input/DipoleMap2.0890.root

[INFO ] PndFieldMap: Reading field map from ROOT file

/home/nakul/pandaroot/jan14/input/SolenoidMap1.root

[INFO ] PndFieldMap: Reading field map from ROOT file

/home/nakul/pandaroot/jan14/input/SolenoidMap2.root

[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/nakul/pandaroot/jan14/input/SolenoidMap3.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/nakul/pandaroot/jan14/input/SolenoidMap4.root

-----FairGeane::Init ()-----

Loading Geant3 libraries ...  
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 255514687 F3AD83F HEX

MZSTOR. Initialize Store 0 in /GCBANK/  
with Store/Table at absolute adrs 255623941 255514687  
HEX F3C8305 F3AD83F  
HEX 1AB2A 0  
relative adrs 109354 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  
-W- PndMvdRiemannTrackFinderTask::Init: No Branch Names given with  
AddHitBranch(TString branchName)! Standard BranchNames taken!  
-I- PndMvdRiemannTrackFinderTask: Initialisation 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- -----  
[INFO ] Branch: SttMvdTrackCand not found in Tree  
[INFO ] Branch: SttMvdTrackCand not found in Tree  
fStartTrackCandBranchName SttMvdTrackCand not found  
Error in <PndSttMvdGemTracking::PndSttMvdGemTracking::Init>: stt + mvd trackcand - array

```

not found!
-I- PndMCTrackAssociator::Init
[INFO ] Branch: SttMvdGemTrack not found in Tree
[INFO ] Branch: SttMvdGemTrack not found in Tree
-I- PndMCTrackAssociator::Init: No PndTrack array!
-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
=====
[INFO ] Branch: SttMvdGemTrack not found in Tree
[INFO ] Branch: SttMvdGemTrack not found in Tree
Error in <PndRecoKalmanTask::PndRecoKalmanTask::Init>: track-array not found!
-I- PndMCTrackAssociator::Init
[INFO ] Branch: SttMvdGemGenTrack not found in Tree
[INFO ] Branch: SttMvdGemGenTrack not found in Tree
-I- PndMCTrackAssociator::Init: No PndTrack array!
[INFO ] The number of entries in chain is 10
terminate called after throwing an instance of 'std::out_of_range'
  what(): vector::_M_range_check
nakul@linux-kqx4:~/pandaroot/x3872/x3872>

```

thank you