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Subject: [OBSOLETE] run\_sim\_tpcorsttcombi.C  
Posted by [nakulphy](#) on Tue, 25 Mar 2014 18:18:52 GMT  
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hello all

I am trying to reproduce the data in master thesis Simulation of )decays using the pandaroot framework by Martin Galuska but in the simulation file the detector tpc.geo is not found in /pandaroot/geometry in pandaroot with the revision 24201.

but when I removed the tpc detector there were the problem with the initialization and it gives

```
nakul@linux-kqx4:~/pandaroot/x3872/me> root -l run_sim_tpcorsttcombi.C
root [0]
Processing nakul.C...
TPCoRSTT is set to tpc
Geant version is set to TGeant3
FairRootManager::OpenOutFile("points_tpccombi.root")
[INFO ] Media file used : /home/nakul/pandaroot/trunk/geometry/media_pnd.geo
Use detector with TPC setup.???
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
-l container name PndEmcGeoPar
TypeOfSimulation is: Background
<l> PndDpmDirect initialization
<l> Momentum = 6.991
<l> Seed = 123456
<l> Mode = 0
<l> Theta min = 2
[INFO ]===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-l- FairGeoMedia Read media
-l container name PndEmcDigiPar
-l container name PndEmcDigiNonuniformityPar
```

```
*****
```

```
initialisation for run id 2103825461
```

```
*****
```

```
[ERROR ] init() PndEmcGeoPar not initialized
[ERROR ] init() PndSensorNamePar not initialized
PndEmcDigiPar initialized from Ascii file
[ERROR ] init() PndEmcDigiNonuniformityPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/TransMap.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/DipoleMap1.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/DipoleMap2.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap1.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap2.root
```

[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/nakul/pandaroot/trunk/input/SolenoidMap3.root  
[INFO ] PndFieldMap: Reading field map from ROOT file  
/home/nakul/pandaroot/trunk/input/SolenoidMap4.root  
[INFO ] ----- Standard Config is called -----  
Loading Geant3 libraries ...  
Loading Geant3 libraries ... finished

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 997100607 3B6E8C3F HEX

MZSTOR. Initialize Store 0 in /GCBANK/  
with Store/Table at absolute adrs 997209861 997100607  
HEX 3B703705 3B6E8C3F  
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  
-l- G3Config: Geant3 with TGeo has been created.  
SetCuts Macro: Setting Processes..  
SetCuts Macro: Setting cuts..  
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave  
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100  
<l> PndPipe - Using default geometry  
fwendcap & bwendcap flags == 1 / 1

=====  
EMC 2):: ConstructASCIIGeometry() ===  
=====

PndEmcReader: EMC geometry file ==  
/home/nakul/pandaroot/trunk/geometry/emc\_module12.dat  
Emc module = 1  
\*\*\*\*\*

Emc module = 2  
\*\*\*\*\*

=====  
EMC:: ConstructRootGeometry() m3a ===  
=====

File name = /home/nakul/pandaroot/trunk/geometry/emc\_module3new.root

=====  
EMC:: ConstructRootGeometry() m4a ===  
=====

fgeoName3:: /home/nakul/pandaroot/trunk/geometry/emc\_module4\_StraightGeo24.4.root  
File name Bw1= /home/nakul/pandaroot/trunk/geometry/emc\_module4\_StraightGeo24.4.root

=====  
EMC:: ConstructRootGeometry() m5a ===

fgeoName4:: /home/nakul/pandaroot/trunk/geometry/emc\_module5\_fsc.root  
File name Fsc= /home/nakul/pandaroot/trunk/geometry/emc\_module5\_fsc.root

=====  
DRC:: ConstructGeometry() =====

Focusing = 0

=====  
-l container name PndGeoFtsPar

BBBB->36

cccc->13793

Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...

Info in <TGeoManager::CheckGeometry>: ...Nothing to fix

Info in <TGeoManager::CloseGeometry>: Counting nodes...

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

Info in <TGeoManager::CloseGeometry>: Building cache...

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

Info in <TGeoManager::CloseGeometry>: 1986573 nodes/ 3524 volume UID's in FAIR geometry

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

=====  
DRC:: ConstructOpticalGeometry() =====

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface MirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface MirrSurface. Not applicable in Geant3 - setting is ignored.

fbarnum = -999

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVAirSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface PDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVPDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface PDSurface. Not applicable in Geant3 - setting is ignored.

```
applicable in Geant3 - setting is ignored.
===== DRC::ConstructOpGeometry -> Finished! =====
-I- Initializing PndSdsDetector()
[INFO ] Branch: MVDPPoint not registered!
-W- PndSdsDetector: New branch MVDPPoint created!
```

```
*****
PndEmc::SetSpecialPhysicsCuts():
  using special physics cuts ...
*****
-I- Initializing PndGemDetector()
-I- PndDrc: Intialization started...
-I- PndDrc: Switching OFF Cherenkov Propagation
DRC parameters: fpi = 3.14159, fzup = -120, fbarnum = 5, flside = 16.6323
bar 1 id = 3406
lens1ID = 3406, flens2ID = 3406, lens3ID = 3406
pd id = 3411
bbox id = 3409
EV id = 3410
-I- PndDrc: Intialization successfull
-I- Initializing PndFts()
[INFO ] Initialize Tasks-----
INITIALIZATION *****
Not found tci for index = 229000010 in PndEmcStructure
nakul@linux-kqx4:~/pandaroot/x3872/me>
```

and when I take the detector as in the apr13 tutorial it gives (I may be wrong in doing so....)

```
nakul@linux-kqx4:~/pandaroot/x3872/me> root -l run_sim_tpcorsttcombi.C
root [0]
Processing run_sim_tpcorsttcombi.C...
TPCorSTT is set to tpc
Geant version is set to TGeant3
FairRootManager::OpenOutFile("points_tpccombi.root")
[INFO ] Media file used : /home/nakul/pandaroot/trunk/geometry/media_pnd.geo
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
-I container name PndEmcGeoPar
TypeOfSimulation is: Background
<l> PndDpmDirect initialization
<l> Momentum = 6.991
<l> Seed = 123456
<l> Mode = 0
<l> Theta min = 2
[INFO ] ===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-I- FairGeoMedia Read media
-I container name PndEmcDigiPar
-I container name PndEmcDigiNonuniformityPar
```

\*\*\*\*\*

initialisation for run id 1914675557

\*\*\*\*\*

```
[ERROR ] init() PndEmcGeoPar not initialized
[ERROR ] init() PndSensorNamePar not initialized
PndEmcDigiPar initialized from Ascii file
[ERROR ] init() PndEmcDigiNonuniformityPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/TransMap.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/DipoleMap1.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/DipoleMap2.0890.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap1.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap2.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap3.root
[INFO ] PndFieldMap: Reading field map from ROOT file
/home/nakul/pandaroot/trunk/input/SolenoidMap4.root
[INFO ] ----- Standard Config is called -----
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished
```

MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 334277695 13ECAC3F HEX

```
MZSTOR. Initialize Store 0 in /GCBANK/
with Store/Table at absolute adrs 334386949 334277695
HEX 13EE5705 13ECAC3F
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.

SetCuts Macro: Setting Processes..

SetCuts Macro: Setting cuts..

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

Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100  
<l> PndPipe - Using geometry /home/nakul/pandaroot/trunk/geometry/beampipe\_201112.root  
-l container name PndGeoSttPar  
fwendcap & bwendcap flags == 1 / 1

=====  
=====

PndEmcReader: EMC geometry file ==  
/home/nakul/pandaroot/trunk/geometry/emc\_module12.dat  
Emc module = 1  
\*\*\*\*\*

Emc module = 2  
\*\*\*\*\*

=====  
=====

File name = /home/nakul/pandaroot/trunk/geometry/emc\_module3\_2012\_new.root

=====  
=====

fgeoName3:: /home/nakul/pandaroot/trunk/geometry/emc\_module4\_StraightGeo24.4.root  
File name Bw1= /home/nakul/pandaroot/trunk/geometry/emc\_module4\_StraightGeo24.4.root

=====  
=====

fgeoName4:: /home/nakul/pandaroot/trunk/geometry/emc\_module5\_fsc.root  
File name Fsc= /home/nakul/pandaroot/trunk/geometry/emc\_module5\_fsc.root

=====  
=====

Focusing = 0

=====  
=====

-l container name PndGeoFtsPar

BBBB->36

cccc->13793

Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...

Info in <TGeoManager::CheckGeometry>: ...Nothing to fix

Info in <TGeoManager::CloseGeometry>: Counting nodes...

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

Info in <TGeoManager::CloseGeometry>: Building cache...

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

Info in <TGeoManager::CloseGeometry>: 2000971 nodes/ 5722 volume UID's in FAIR geometry

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

=====  
=====

=====  
=====

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface MirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface BarMirrSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface MirrSurface. Not applicable in Geant3 - setting is ignored.

fbarnum = -999

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVAirSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface EVSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::DefineOpSurface>: Called for surface PDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetBorderSurface>: Called for border surface EVPDSurface. Not applicable in Geant3 - setting is ignored.

Warning in <TGeant3TGeo::SetMaterialProperty>: Called for material surface PDSurface. Not applicable in Geant3 - setting is ignored.

===== DRC::ConstructOpGeometry -> Finished! =====

-I- Initializing PndSdsDetector()

[INFO ] Branch: MVDPoint not registered!

-W- PndSdsDetector: New branch MVDPoint created!

-I- Initializing PndGemDetector()

\*\*\*\*\*

PndEmc::SetSpecialPhysicsCuts():

using special physics cuts ...

\*\*\*\*\*

-I- PndDrc: Intialization started...

-I- PndDrc: Switching OFF Cherenkov Propagation

DRC parameters: fpi = 3.14159, fzup = -120, fbarnum = 5, flside = 16.6323

bar 1 id = 5156

lens1ID = 5156, flens2ID = 5156, lens3ID = 5156

pd id = 5161

bbox id = 5159

EV id = 5160

-I- PndDrc: Intialization successfull

-I- Initializing PndFts()

[INFO ] Initialize Tasks-----

INITIALIZATION \*\*\*\*\*

-I- PndEmcHitProducer: Intialization successfull

[INFO ] Simulation RunID: 1914675557

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

Cross section calculation concluded successfully

[INFO ] Monte carlo Engine Initialisation with : TGeant3TGeo

[INFO ] \*\*\* PndEmcGeoPar written to ROOT file version: 1

[INFO ] \*\*\* PndSensorNamePar written to ROOT file version: 1



```
[INFO ] *** PndEmcDigiPar written to ROOT file version: 1
[INFO ] *** PndEmcDigiNonuniformityPar written to ROOT file version: 1
[INFO ] *** FairBaseParSet written to ROOT file version: 1
[INFO ] *** PndMultiFieldPar written to ROOT file version: 1
[INFO ] *** PndGeoPassivePar written to ROOT file version: 1
[INFO ] *** PndGeoSttPar written to ROOT file version: 1
[INFO ] *** PndGeoFtsPar written to ROOT file version: 1
```

----- actual containers in runtime database -----

```
PndEmcGeoPar           Emc Geometry Parameters
PndSensorNamePar      Match between GeoManager path and SensorId
PndEmcDigiPar         Emc Digitalization Parameters
PndEmcDigiNonuniformityPar  Emc Nonuniformity Parameters
FairBaseParSet        class for parameter io
PndMultiFieldPar      Multiple Field parameter container
PndTransPar           Trans. Field parameter container
PndDipole1Par         Dipole Field parameter container
PndDipole2Par         Dipole Field parameter container
PndSolenoid1Par       Solenoid 1st region parameter container
PndSolenoid2Par       Solenoid 2nd region parameter container
PndSolenoid3Par       Solenoid 3rd region parameter container
PndSolenoid4Par       Solenoid 4th region parameter container
PndGeoPassivePar      Passive Geometry Parameters
PndGeoSttPar          Stt Geometry Parameters
PndGeoFtsPar          Fts Geometry Parameters
```

----- runs, versions -----

```
run id
  container           1st-inp  2nd-inp  output
run: 1914675557
  PndEmcGeoPar       1914675557  -1      1
  PndSensorNamePar   1914675557  -1      1
  PndEmcDigiPar      1          -1      1
  PndEmcDigiNonuniformityPar  1914675557  -1      1
  FairBaseParSet     1914675557  -1      1
  PndMultiFieldPar   1914675557  -1      1
  PndTransPar        1914675557  -1      0
  PndDipole1Par      1914675557  -1      0
  PndDipole2Par      1914675557  -1      0
  PndSolenoid1Par    1914675557  -1      0
  PndSolenoid2Par    1914675557  -1      0
  PndSolenoid3Par    1914675557  -1      0
  PndSolenoid4Par    1914675557  -1      0
  PndGeoPassivePar   1914675557  -1      1
  PndGeoSttPar       1914675557  -1      1
  PndGeoFtsPar       1914675557  -1      1
```

----- input/output -----

```
first Input:
Ascii I/O /home/nakul/pandaroot/trunk/macro/params/all.par is open
detector I/Os: FairGenericParlo
second input: none
output:
OBJ: FairParRootFile  params_tpccombi.root  : 0 at: 0x2362ee0
```



Root file I/O params\_tpccombi.root is open

detector I/Os: FairGenericParlo

```
**** GTRIGI: IEVENT= 1 IDEVT= 1 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 1) 4 primary tracks from vertex (0.041164, 0.057531,
-0.625556 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 2 IDEVT= 2 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 2) 5 primary tracks from vertex (-0.146984, 0.036746,
-0.314763 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 3 IDEVT= 3 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 3) 5 primary tracks from vertex (0.015610, 0.011733,
0.105003 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 4 IDEVT= 4 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 4) 6 primary tracks from vertex (0.040855, -0.029071,
0.099462 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 5 IDEVT= 5 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 5) 6 primary tracks from vertex (0.039660, -0.013778,
-0.174028 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 6 IDEVT= 6 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 6) 7 primary tracks from vertex (-0.094980, -0.092367,
0.001769 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 7 IDEVT= 7 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 7) 9 primary tracks from vertex (0.091510, -0.232515,
0.088749 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 8 IDEVT= 8 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 11) 11 primary tracks from vertex (-0.018343, -0.021289,
-0.308367 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 9 IDEVT= 9 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 9) 8 primary tracks from vertex (0.140869, -0.057685,
-0.188831 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
**** GTRIGI: IEVENT= 10 IDEVT= 10 Random Seeds = 123456 0
[INFO ] FairPrimaryGenerator: (Event 10) 8 primary tracks from vertex (-0.094318,
-0.048934, 0.087990 ) Event Time = 0.000000 (ns)
DIGI EXECUTION *****
```

Macro finished succesfully.

RealTime=77.994650 seconds, CpuTime=77.200000 seconds

Output file is points\_tpccombi.root

(int)1737213856

root [1]

but still here there is the problem with the output .root file and when I tried to open that file it gives me the error

nakul@linux-kqx4:~/pandaroot/x3872/me> root points\_tpccombi.root

```
*****
*                                     *
*   W E L C O M E  t o  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]

Attaching file points\_tpccombi.root as \_file0...

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

root [1]

I am also attaching that file here.

Please help me out.

Thank you

## File Attachments

1) [points\\_tpccombi.root](#), downloaded 240 times

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