Subject: Re: How to write Macros with newest trunk code Posted by Stefan Pflueger on Fri, 15 Sep 2017 11:09:34 GMT

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Hi Florian,

ok thx for the tip. I saw that reason that the Imd macros did not deliver any results was that the simulation macro did not generate geant hits in the lumi detector geometry. As if the lumi geometry is not seen by it.

Below is the output log of the macro until geant start propagating particles. I stumbled across the line

Error in <TGeoVoxelFinder::SortAll>: Volume Imd\_vol\_ref\_sys: Cannot make slices on any axis

Is that normal? Does anyone know if this is an error that can be ignored?

## Quote:

[INFO ] Media file used: /home/pflueger/pandaroot/geometry/media\_pnd.geo Info in (PndGeoHandling::Instance): Making a new instance using the framework.

- I - PndLmdDetector: fListOfSensitives contains:

LumActive

Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created

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initialisation for run id 1505472465

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-I- FairRunTimeDB::InitContainer() PndSensorNamePar

[ERROR ] init() PndSensorNamePar not initialized

Error in <FairRuntimeDb::initContainers()>: Error occured during initialization

Loading Geant4 libraries (using geant4-config) ...

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Loading VGM libraries ...

Loading g4root library ...

Loading geant4vmc library ...

Loading mtroot library ...

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**Geant4 Virtual Monte Carlo** 

Version 3.3 (15 January 2016)

WWW: http://root.cern.ch/drupal/content/geant4-vmc

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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/pflueger/pandaroot/geometry/beampipe\_201309.root

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...

Error in <TGeoVoxelFinder::SortAll>: Volume Imd\_vol\_ref\_sys: Cannot make slices on any

axis

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

Info in <TGeoManager::CountLevels>: max level = 8, max placements = 36

Info in <TGeoManager::CloseGeometry>: 1347 nodes/ 81 volume UID's in FAIR geometry

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

Info in <TObject::SetNavigator>: TG4RootNavigator created and registered to

G4TransportationManager

isMaster=1

Running TVirtualMCApplication::ConstructGeometry

Geant4 version Name: geant4-10-02-patch-01 (26-February-2016)

Copyright: Geant4 Collaboration

Reference: NIM A 506 (2003), 250-303

WWW: http://cern.ch/geant4

Info in <TObject::Initialize>: Creating G4 hierarchy ...

Info in <TGeoManager::ConvertReflections>: Converting reflections in: FAIRGeom - FAIR geometry ...

Info in <TGeoManager::ConvertReflections>: Done

===> GEANT4 materials created and mapped to TGeo ones...

===> GEANT4 physical volumes created and mapped to TGeo hierarchy...

### INFO: TG4RootDetectorConstruction::Construct() finished

TG4PostDetConstruction::Initialize

G4 Stat: instantiated 404 logical volumes

1346 physical volumes

Info in <TObject::ConnectToG4>: ROOT detector construction class connected to

G4RunManager

Adding HadronPhysicsList QGSP\_BERT\_EMV

G4PhysListFactory::GetReferencePhysList <QGSP\_BERT\_EMV> EMoption= 1

<<< Geant4 Physics List simulation engine: QGSP BERT 4.0

<<< Reference Physics List QGSP\_BERT\_EMV is built</p>

Adding SpecialPhysicsList stepLimiter+specialCuts+

### TG4SpecialControlsV2 constructed

Visualization Manager instantiating with verbosity "warnings (3)"...

Geant4 has been created.

-I g4Config() using g4conf macro: /home/pflueger/pandaroot/gconfig/g4config.in

SetCuts Macro: Setting Processes...

SetCuts Macro: Setting cuts...

TG4RootDetectorConstruction::ConstructSDandField

TG4PostDetConstruction::InitializeSDandField

-I- Initializing PndSdsDetector()

-W- PndSdsDetector: New branch LMDPoint created!

Global magnetic field created with stepper ClassicalRK4

### INFO: TG4RootDetectorConstruction::ConstructSDandField finished

### Adding tracking cuts for neutron TimeCut(ns)= 10000 KinEnergyCut(MeV)= 0

### Hadron physics constructed.

### Processes mapped to VMC controls ok.

### Step limiter physics constructed.

### Special Cuts constructed.

## Stefan