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Subject: MDT modification to run with different geometries  
Posted by [Marco Destefanis](#) on Thu, 18 Dec 2008 12:19:34 GMT  
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Hi all,

together with George, we have modified a part of the PndMdt.\* class. We have moved the public method "ConstructGeometry" and "ProcessHits" into a different file: "PndMdtGeoConstructorTo.\*". In this way it is possible to run simulations with different MDT geometries.  
We have also prepared the same structure for the MDT implementation of the Dubna group ("PndMdtGeoConstructorDu.\*").

The code is compiled during the normal PandaRoot compilation and then it can be used with a simple modification in sim\_muon.C. To add the MDT module to the simulation, one needs to use

```
PndMdt* Mdt = new PndMdt("MDT",kTRUE);  
Mdt->SetMdtVersion("torino");  
Mdt->SetGeometryFileName("muopars.root");  
fRun->AddModule(Mdt);
```

To run with the Dubna group design, one needs to use `Mdt->SetMdtVersion("dubna");`

Bye,  
Marco

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