Subject: New (additional) Geometry in Pandaroot
Posted by Dominik Steinschaden on Mon, 04 May 2015 15:07:46 GMT
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Hallo everybody,

today i uploaded a new geometry file to the trunk version of pandaroot.

You can find the geometry file in trunk/geometry/SciTil_varB_201505.root
And the macro which was used to build the file under
trunk/macro/scitil/geometry/create_scit_varB_rootgeo.C

Also the standard geometry is still available under trunk/geometry/SciTil_201504.root

This geometry should reflect a more realistic Version of the SciTil detector.

Main difference of this geometry are the scintillating tiles which are now 3 times the size of the original ones.
The precise dimensions can be looked up in the attached table of properties

To build a Super-Module the arrangement was changed.
On each scintillator tile 4 SiPMs are attached on both sides which are connected to one PCB card.
Two of such tiles build one line of a Super-Module.
60 Lines build a Super-Module. The single PCB cards are connected to readout PCB cards which transport the signal to the front end of the detector.

Attached are 3 pictures which show a single line, a Super-Module, and the whole barrel.
One can see the

scintillator tiles in blue SiPMs in red PCB (connectors) in yellow PCB (Readout) in green

Regards

Dominik

File Attachments

1) varB.zip, downloaded 620 times