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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

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### File Attachments

1) [varB.zip](#), downloaded 576 times

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