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v4.0 - Monolayer design with dead regions (experimental)

This version is an improved design of v2.0 as a result of the SciFiHarmonisation Workshop.

It has a stepwise beamhole (before: circular) and comes in three different versions:

FTv40:

- no 'triangles', i.e. horizontal border between top and bottom fibermat
- no 'sawtooth', i.e. the top and bottom modules are cut at the same y-value

FTv41

- no 'triangles', with 'sawtooth'

FTv42

- with 'triangles', with 'sawtooth'

All versions are available in the DDDB since release dddb-20141016.

In FTv4 the modules are concerned by the "StereoIssue", which means that X modules and U,V modules have different dimensions, which is not correct from construction point of view. In fact, all modules (X,U,V) will have the same dimension in x,y and z. This issue is the major design problem of FTv4, which was released to DDDB too early. In FTv5 and later this issue is solved.

FTv4 will be / is superseded by FTv5.

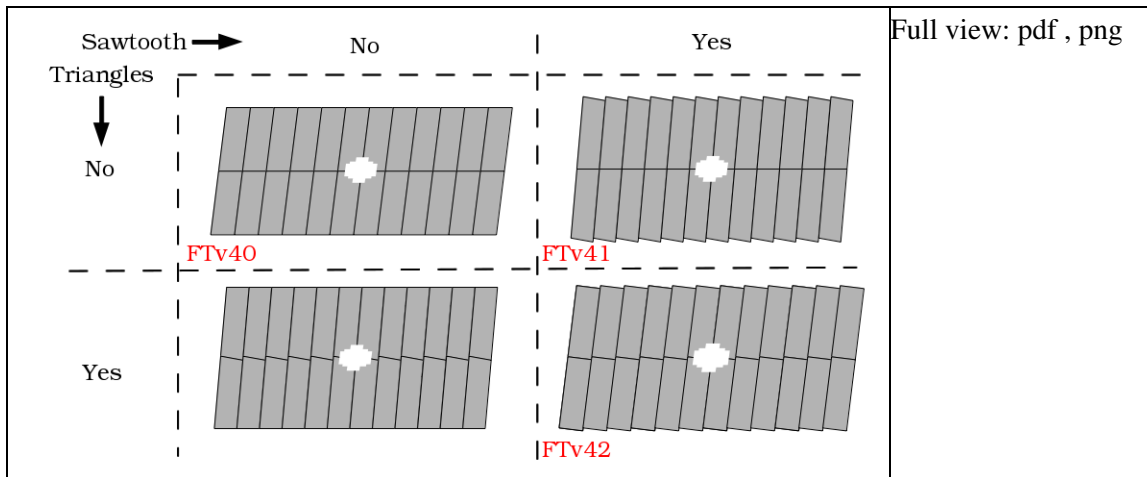
Panoramix pictures

#1: Three FTModules of X-Type*	pdf , png
#2: Front view on four FTModules of U-Type*	pdf , png
#3: View on Central FTModule of U-Type*	pdf , png
#4: View on Central FTModule of U-Type*	pdf , png

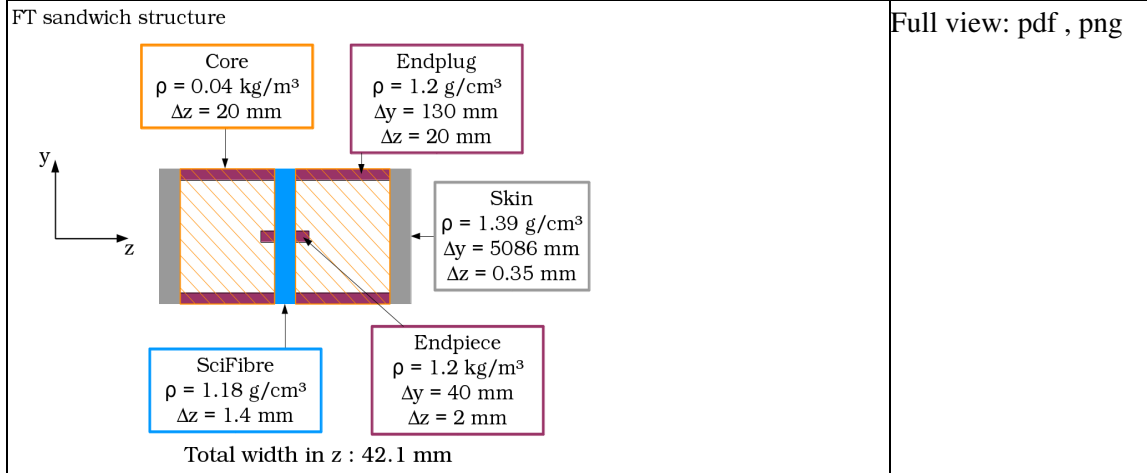
* dimensions are increased for better viewing

Schematic sketches

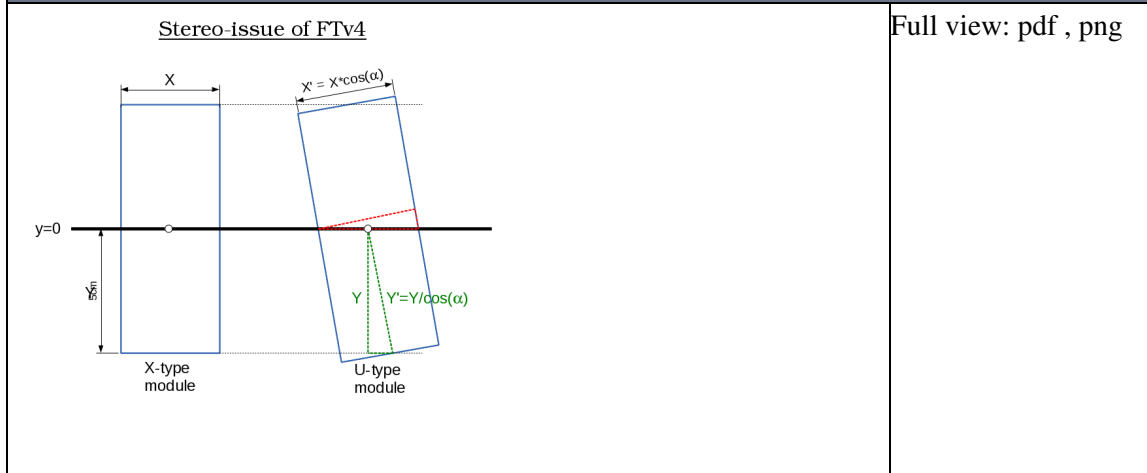
#1: FTv4 designs



#2: Sandwich structure



#3: StereoIssue



-- OliverGruenberg - 19 Jun 2014

This topic: LHCb > SciFiPicv40

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