

ECAL Module - Assembly



ECAL meeting - LLR

Mickael Frotin- 10/02/2012

ECAL design



- We have built a first prototype to validate all composite process after the small demonstrator.
- Width alveolar: (181.34 mm*7.3 and 9.4)
- Ready for First test of slab integration (gluing, interconnection ...)
- Ready for Test beam, analysis and cooling system.



ECAL



- Results



Dimensional inspection



- We have controlled this first ECAL module with an 3D measuring arm machine @IAS (thanks antoine arondel)
- Division of the surface measured in 8 shares
- Global dimensions : Thickness, Width
- I Flatness controlled (top)
- 2 Trapezoidal side were measured
- Central cells and dead zones (Tungsten thickness with alveoles)







Expected (structure dim.) VS Measured



Global width (to be confirmed): 552,78 mm vs 552,65 mm +/- 0.05

Total thickness (15 layers) : 205.3 mm vs 205 mm 0+5.28

Concave deformation, in studies!

Flatness





Flatness (to be confirmed) : 205.3 mm vs 205 mm 0+5.28









