

ILD – Integration status

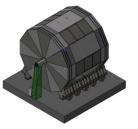


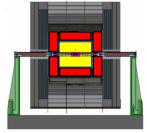
Krakow– September the 24th 2013



ILD – Integration status







Outline

- I. Introduction,
- II. Needs for overall detector
- III. How to manage?
- IV. Conclusion

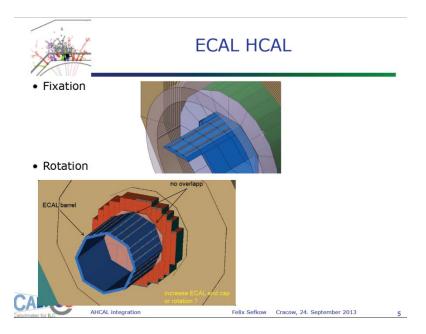




- We have been working on different ILD sub-detectors.
- Each sub-detector has its own :
 - » Placeholder already defined
 - » Fixations
 - » Cables
 - » Cooling or gaz (if it is necessary)
 - » Integration tools

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• Risks of technical conflicts : (See Felix Sefkow's talk)





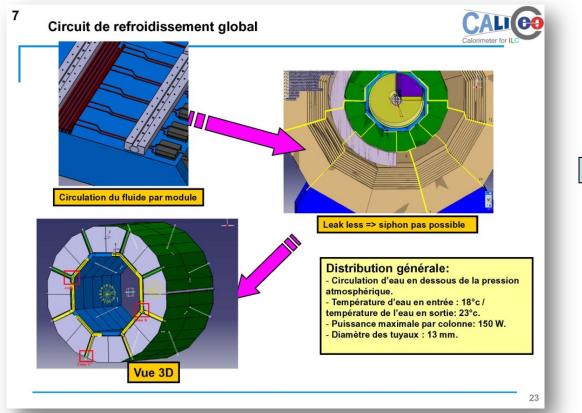
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Now, we need to check every progress step of studies, to integrate them in a whole design.

For example :

Cooling studies for ECAL detector, slides from Julien GIRAUD from LPSC



Now, we are able to integrate in CATIA 3D model and release the interfaces.

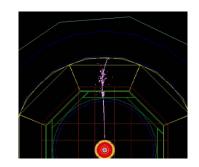
ILD Meeting - Krakow - 24/09/13

Christian Bourgeois – ILD Integration Status





- II. Needs for overall detector :
 - To validate each sub-detectors dimensions
 - -> physical simulations
 - -> 3D model



On 3D model currently the gaps are respected, but :

- Missing :
- sub-detectors fixations, sized according to the calculations (+ earthquake acceleration)
- most of the services.
 - Need to study :
 - An integration scenario : provide space and fixations for assembling tools
 - An open scenario for maintenance
 - Services, cables patch panel placeholders and fixations





III. How to manage ?

After an update of the integration contact list and the creation of a mailinglist.

I'm going to :

>Write matrix interfaces to know all interfaces.

- Send a template of Interface Control Document (ICD)
 - This document will evolve and will ask you details of :
 - -Sub-detectors (weight, dimensions,)
 - -Services (cabling, cooling, gaz)
 - -Preliminary integration scenario
 - -Integration tools
 - -Maintenances

If there is any dimensions changed, we see directly the consequences and implications on the other sub-detectors.

Collect all the informations (3D model, services placeholders..)





IV. Conclusion

Also, to progress, I need your Product Breakdown Structure (PBS).

Certainly, it 's time to write Work Breakdown Structure (WBS)

Many tasks must still be done

untill the TDR.