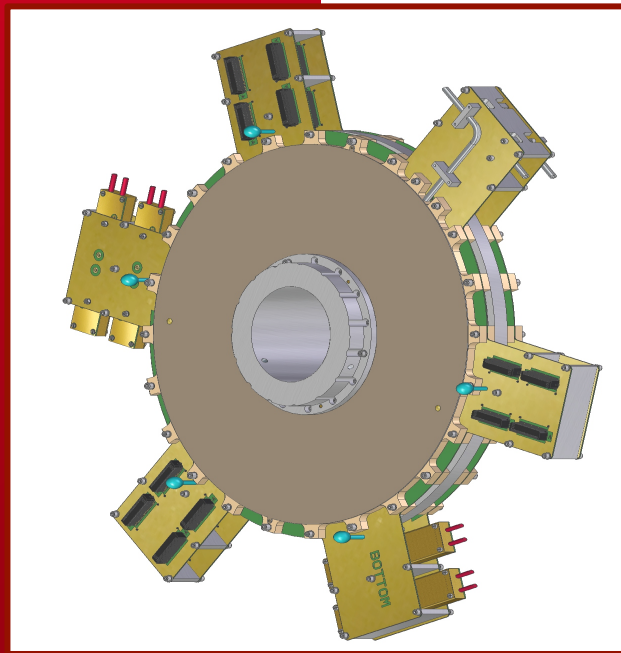


Forward Tagger Tracker

Status Report

DE LA RECHERCHE À L'INDUSTRIE

cea



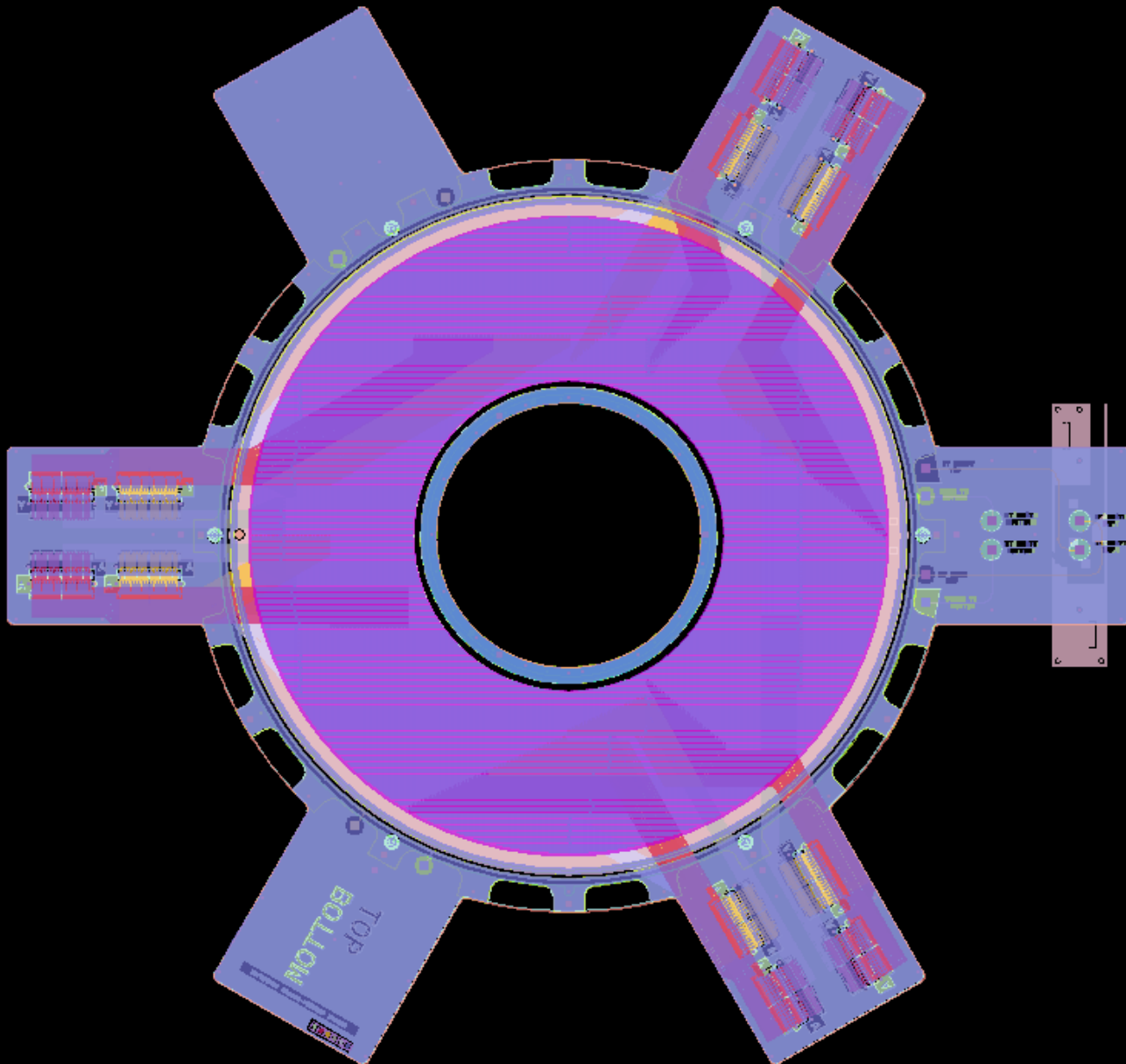
- Detector Status
- Electronics Status
- Contract with OhioU

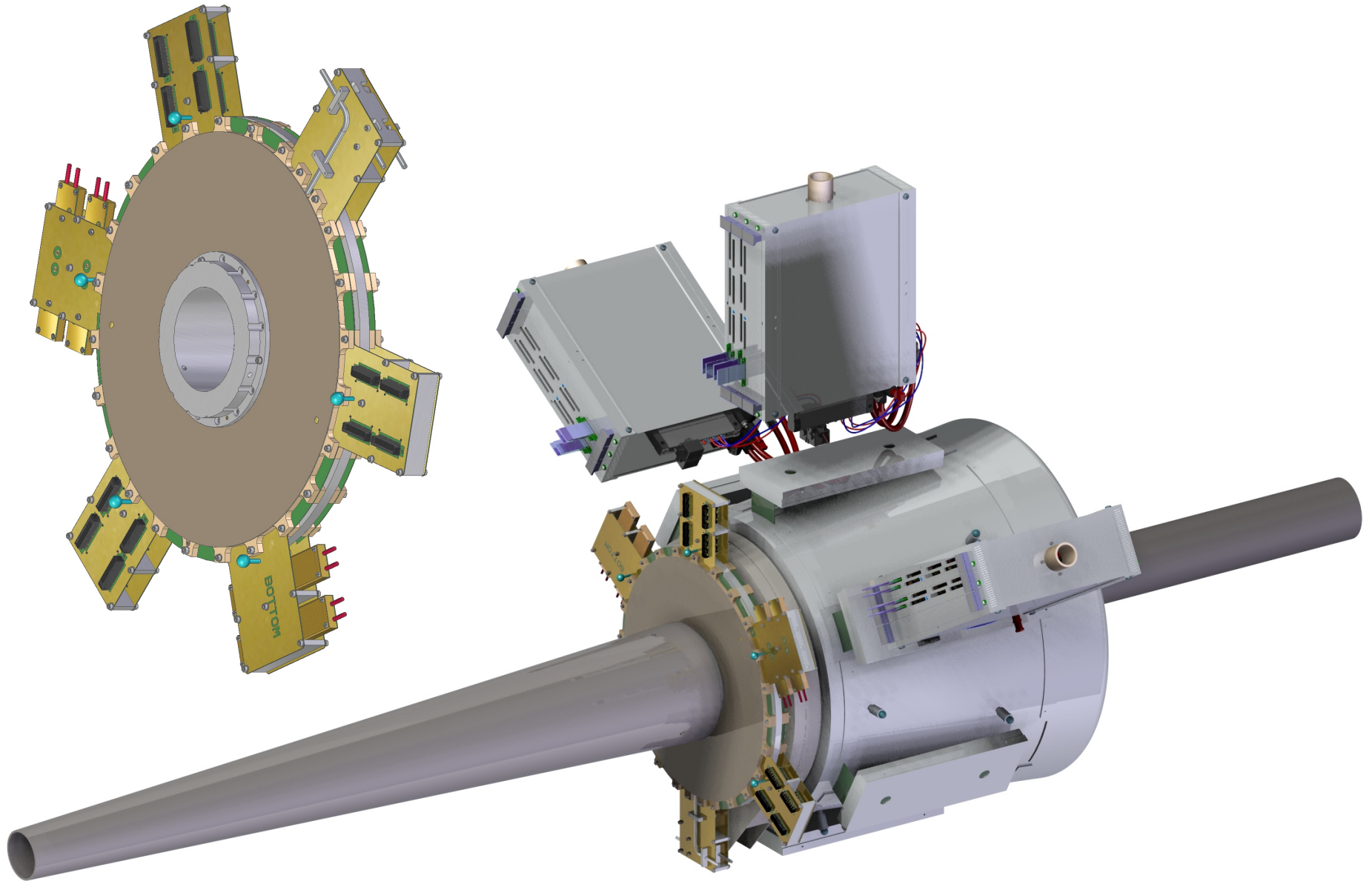
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- **PCB layout** : ready
- **PCB production** : double-sided resistive layer not before the end of the year. Some issues with resistive layer observed in forward and barrel pre-series detectors will influence final design of resistive layer. Possibility to go metallic as a backup plan.
- **Production at CERN** : in the pipeline (along with other barrel and forward detectors) but not started yet. This constitutes an uncertainty on delivery date and depends on the load at CERN and our/their priorities.
- **Electronics, mechanical parts and other components** will be manufactured in the meantime.
- **Target delivery date** : end of February 2015







- 64-channel micro-coaxial cables
 - 65 1m FTT cables received
- FEU
 - 50 boards produced
 - The FTT needs can be satisfied
- Backend
 - Complete MVT backend hardware available at Saclay
 - Firmware & software adaptation ongoing
 - FTT backend loan / purchase will eventually slow/stop our progress !!!
 - VXS crate: Wiener “JLab standard” crate
 - 10-15% more expensive if purchased in Europe
 - VXS crate controller SBC: XVR15 from GE Intelligent Platforms
 - to be advised by JLAB on latest version
 - ~20% more expensive if purchased in Europe
 - TI, SD, SSP boards: JLab
- Services:
 - PL506 LV power supply received
 - Frontend crates: components available, need to start integration
 - Cooling: work in progress

(I. Mandjavidze)



FT Tracker contract : 123 500 €

(final, already went through 1st iteration with commercial dpt)

Includes :

- The 3D conception of a pair of double side Micromegas bulk detector for the forward tagger environment. STP files will be given to the University of Ohio.
- The 2D mechanical drawing of a double side Micromegas bulk and the order of mechanical component. STP and DXF files will be given to the University of Ohio.
- The 2D gerber file drawing of the PCB and the manufacture of 3 PCB. Gerber files will be given to the University of Ohio.
- The manufacturing and integration of three double face Micromegas bulk.
- The characterization of the three detector with Fe55 (5.9 KeV) and cosmic (MIP). A performance report will be issued for each detector.
- The realization of 8 front end unit (FEU) acquisition cards equipped with the DREAM Asics (512 channel peer FEU). The FEU will be integrated in a standard crate.
- The air cooling system for FEU: air compressor and pipes for compressed air distribution.
- The delivery of cables: 65 flat signal cables, 8 high voltage cable with their filter box, one fiber optic from FEU to Back End Unit data acquisition.
- Delivery of service: high voltage unit, low voltage unit, gas dispatching rack.
- The delivery of detectors, cables and front-end electronic

Contract in final stage at the commercial department at Saclay : Expect it soon