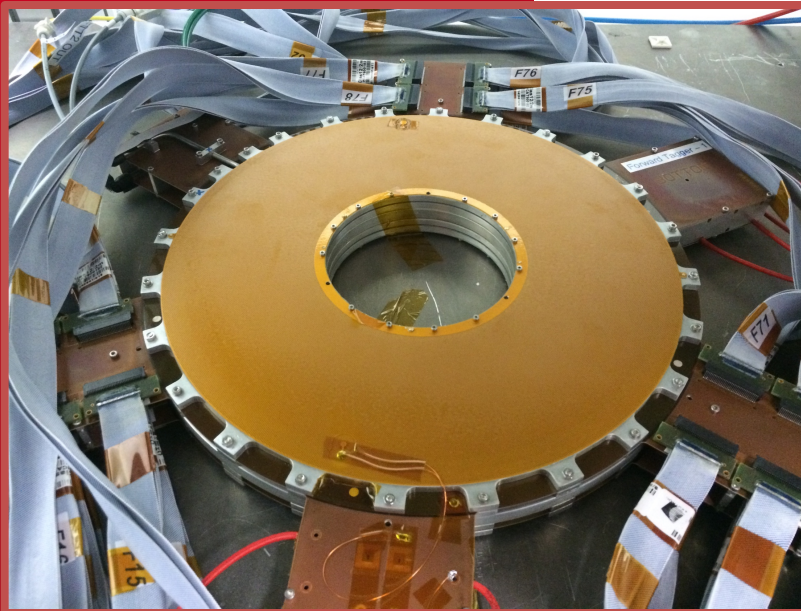


DE LA RECHERCHE À L'INDUSTRIE



# Forward Tagger Tracker Status Report

F. Sabatié – CEA Saclay

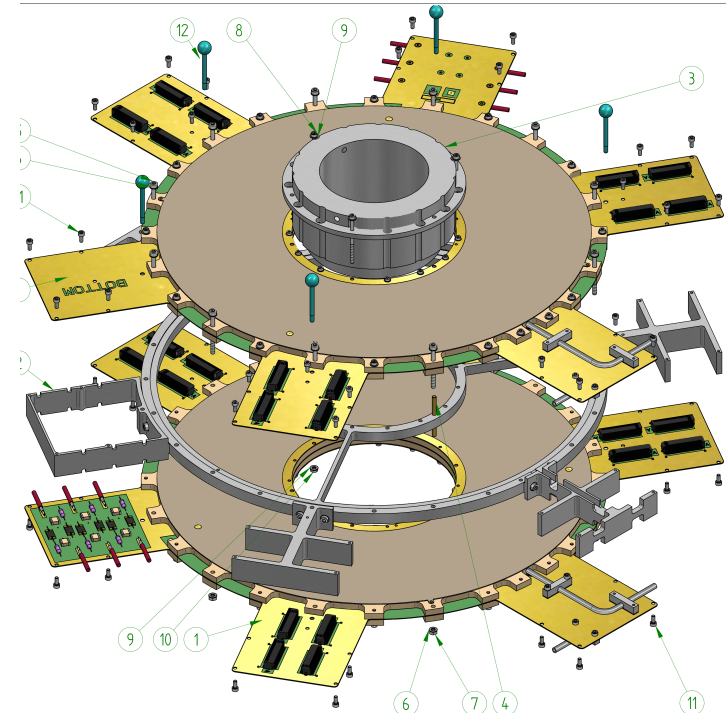


- Design of FT-Trk
- Status report
- A few results from December test

[www.cea.fr](http://www.cea.fr)

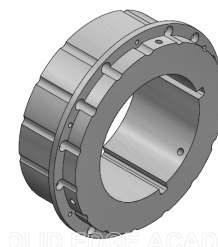


- ▶ Two double-sided (X-Y) Micromegas detectors
  - ▶ Strip Pattern
    - 560  $\mu\text{m}$  pitch
    - 768 strips per side
    - Resistive technology -> no spark
  - ▶ Single input and output gas for both side
  - ▶ Chambers can be taken apart/repaired
- 
- ▶ Readout using the same MVT electronics based on Dream ASICs
  - ▶ 1.5m long micro-coax cables





- ▶ Detectors 1 & 2 arrived late from CERN (November 2015). One connector was broken on detector 2 ☹
- ▶ Integration at Saclay, very limited checks and sent to JLab almost right away
- ▶ Tests of FTT at JLab in December 2015
  - Could not proceed with mechanical integration with “nose” (the part was not machined yet after all)
  - Discovered issues with gas tightness (corrected locally but ...)
- ▶ Decided on some modifications in the design to reinforce the structure using 3D printing elements and to improve the gas tightness
- ▶ Shipped FTT back to Saclay
- ▶ Building of FTT detector #3 in progress at CERN
  - Expected at Saclay first week of March
  - Detector 1 & 3 will be main detector
  - Detector 2 (broken connector) will be spare
  - Possible to remake a spare but not within time/budget for now
- ▶ Final delivery at JLab in June (tentatively)



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