Short summary of the Orsay meeting about the forward PID – forward EMC interface

Frascati SuperB workshop, December 2nd 2009

Nicolas Arnaud (LAL-Orsay)







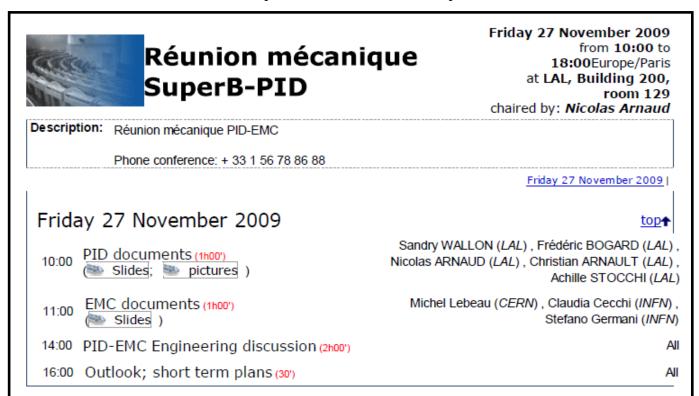
- Indico webpage of the meeting: http://indico.lal.in2p3.fr/conferenceDisplay.py?confld=926
- Meeting held last Friday (2009/11/27) at LAL-Orsay
- Attendance: NA, Frédéric Bogard, Sandry Wallon (LAL-Orsay) Stefano Germano, Michel Lebeau (Perugia)
- Main goals: establish contact between groups; identify major problems (if any); define a common work strategy to move forward ©

Meeting agenda

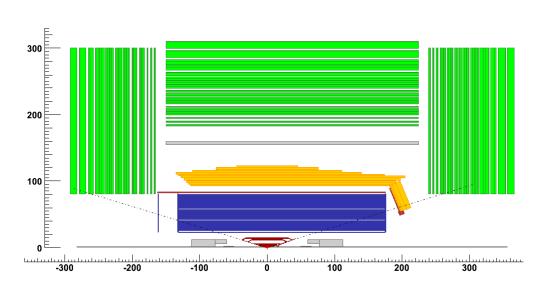
- Introduction (NA)
- Pictures from current mechanical design for 'DIRC-like' TOF (Frédéric + Sandry)
- Summary of EMC Geant4 simulations (Stefano)
- Status of the forward EMC design (Michel)

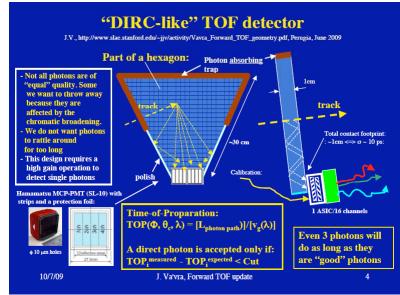
Lunch

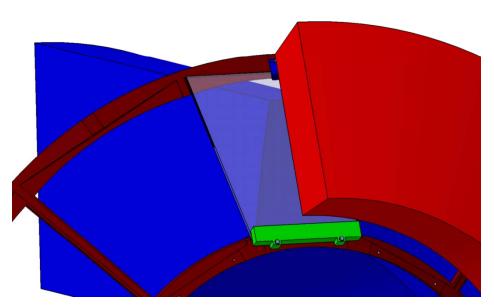
• Engineers' discussion followed by a short summary

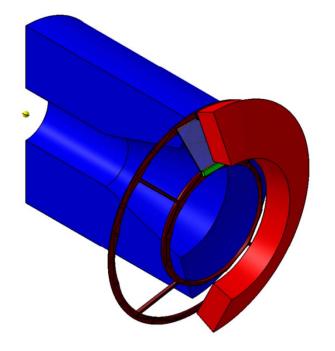


'DIRC-like' TOF Detector

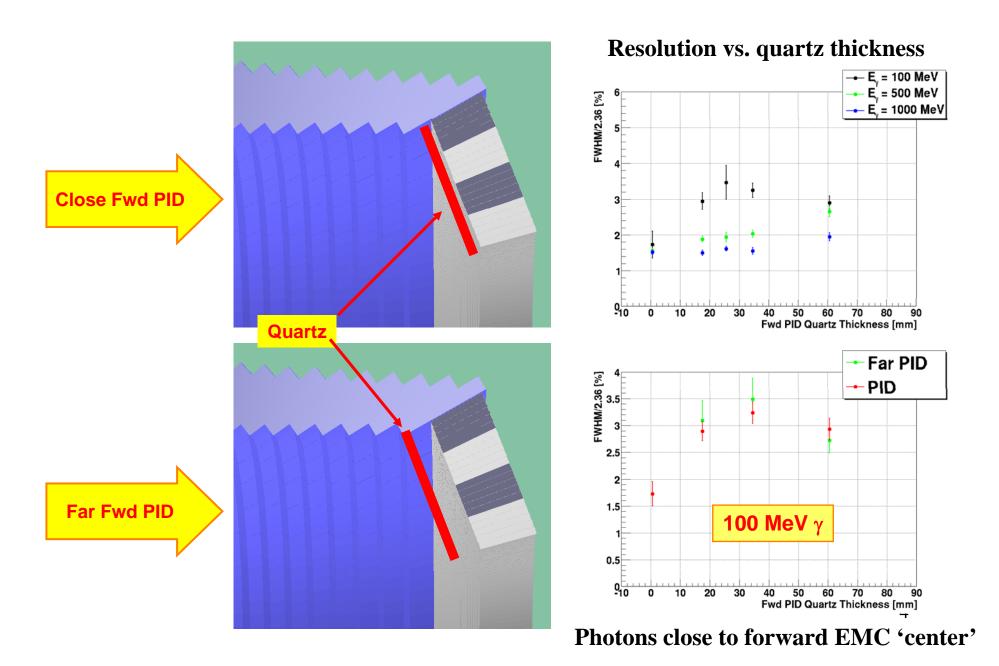








EMC Geant4 Simulations

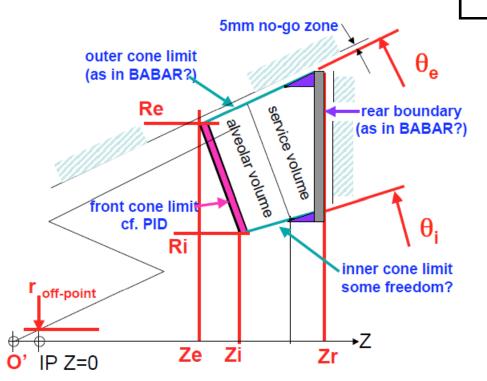


Forward Calorimeter Design

• Michel Lebeau addressed several topics:

Summary

- 1. EMC crystal array
- 2. Support structure
- 3. Alveolar modules
- 4. Prototype module
- 5. EMC boundaries
- 6. Babar barrel-endcap transition
- 7. Installation tooling (re-use of Babar's)
- 8. EMC space for services





Outcome of the Engineers' Discussion

- No showstopper identified
 - → 'DIRC-like' TOF detector very light and mechanically simple.
- Agreement on a possible PID-EMC interface design on the forward side
 - → Sandry and Frédéric are updating their design accordingly.
- Status report next week at Perugia group meeting by Michel Lebeau
 - → If no problem found, design will be made public.
- Forward EMC current priority is to prepare a prototype for beam test early next year
 - → PID should provide them a piece of quartz to be put in front of the crystals in order to check the results of the Geant4 simulation.
- Little manpower on both sides
 - → Working together to optimize ressources is really the way to go.