

Orsay Activities Status Report

Perugia SuperB Meeting, June 16th 2009

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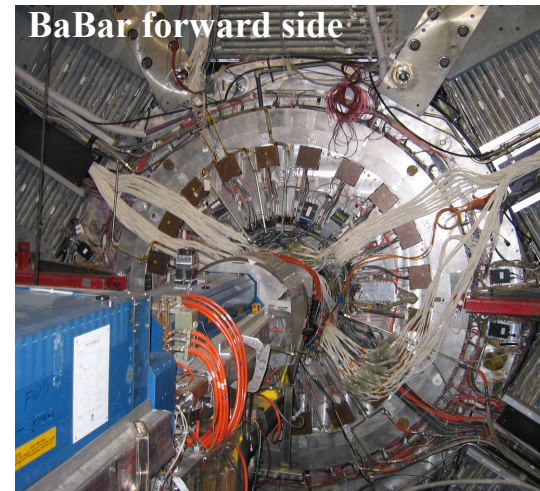


- Manpower
- Current and planned activities
- Interaction with the funding agency
- Future developments, limitations & needs

Manpower

- 4 physicists, ~ 3 FTE
→ Lead by Achille Stocchi
- 4 electronics engineers, ~ 1.5 FTE
→ Lead by Dominique Breton
- 3 instrumentation engineers + 1 technician, ~ 1.5 FTE
→ involvement to start by Fall
- 2 mechanical engineers, ~ 0.5 FTE

Current Activities



- **FastSim**
 - **General PID code** (selectors, etc.)
 - See previous talk for details
 - Focus on **TOF detector** on the forward side
 - See DWGW talks
 - **Should get one or two machines at LAL** to ease FastSim developments in the new standalone release framework
- **Electronics**
 - **Design prototype boards** for **Barrel** and **Forward** (challenging timing accuracy) PID
 - See previous talk for details
- **Mechanics**
 - Work just started
 - Goal is to **think of the way to insert a TOF detector in the forward SuperB region**
 - mechanical structure, support, cabling, etc.
 - **Will use Jerry's design as baseline** (see talk on tomorrow)
 - Main caveat: **lack of up-to-date and realistic** (including cables) **BaBar drawings**
 - hope to collect information this week (dedicated // sessions)

Future Activities

- All the previous ones!
- Test bench for photodiodes (MCP-PMTs and SiPM)
 - Should start by Fall
- Funding urgently needed to make R&D activities concrete
 - getting support from the lab
 - will hopefully get support from the funding agency (see next slide)
 - not enough: will (re-)submit co-funding requests to the SuperB management as soon as the submission procedures are known
- Lack of money would delay activities
 - manpower also scarce

Interaction with our funding agency

- Scientific council on June 29th
 - Global review of all the IN2P3 activities in SuperB (detector + accelerator)
 - Document (~ 30 pages) recently sent to the reviewers
 - Needed to clarify our situation w.r.t. the IN2P3
- Goal is to get officially approved for the TDR phase
 - Would trigger some funding for the second half of 2009 and 2010
- Hope to see the Paris lab involved in PID activities by Fall
 - Would likely boost our activities (successful partnership in BaBar)
 - So far LAL is the only IN2P3 lab involved in detector-related activities

