



Baby-MIND update meeting

Intro, Purpose, Organizational aspects

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29 July 2015

Baby MIND main activities

- **Physics** (UniGe, Japan):
 - Proposal for a spectrometer optimized for low energy muons (< 1 GeV). Aim for muon charge ID with T2K beam. Simulations with T2K beam, 10^{21} POT, anti- ν selection efficiencies > 90%.
- **Magnet** (CERN, UniGe):
 - New modular design for magnetization of steel plates:
 - Individual steel plates are magnetized independently, rather than implementing large coils.
 - Simplified coil assembly, modest power requirements (2 kW).
- **Detector modules** (INR, UniGe, UK):
 - High light yields > 100 photo-electrons, new design of optical connector, custom mechanics. 9000 bars produced in Russia and shipped to Geneva.
 - New custom design underway.
- **Electronics** (UniGe, Sofia):
 - New Front End Board developed using CITIROC readout chip.
- **Mechanics, handling, integration** (All):
 - Spectrometer concepts must allow for **operation at CERN and J-PARC**
 - Increasingly important to **define parameters accurately** for convergence towards final spectrometer design
... hence the call for this meeting series

Purpose of new meeting series

- On the Baby MIND project we've proceeded by holding **several meetings for separate topics** (magnet, detector, handling, simulations, electronics...)
these will continue
- **In addition** we plan **regular meetings** aimed at:
 - **progress updates** for activities in Geneva
 - agreeing on latest **common parameters**
 - **defining interfaces**
- Will **initially** be discussing **general issues**, then towards the **end of the year** will be focusing on issues more specific to **tests at CERN**.
- In time, **focus will move to integration/transportation** issues for **installation in Japan**.

Note that a well established regular WAGASCI meetings series takes place, chaired by Japanese colleagues. The meeting series proposed here is not a substitute for the WAGASCI meetings, but a tool specific to the Spectrometer sub-detector.

Organizational aspects

- This meeting series frequency:
 - proposal **every 2 weeks**,
same date/time slot in the week.
- We are working within the framework of the **CERN Neutrino Platform project**, this sets the environment for the tools below.
- **“Document” databases:**
 - edms: <https://edms.cern.ch/edmsui/#!/master/navigator/project?P:1899715895:1899715895:subDocs>
 - twiki: <https://twiki.cern.ch/twiki/bin/view/CENF/>
 - indico: <https://indico.cern.ch/category/6666/>
 - web: <https://cenf.web.cern.ch>