

Goals of the meeting

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Open Hyper-K meeting, January-14-2012

First open Hyper-K meeting (Aug.23-24, 2012)

~100 participants, ~50 non-Japanese



- <http://indico.ipmu.jp/indico/conferenceDisplay.py?confId=7>
- Review the current status of the project and discuss the strategy to realize Hyper-K
- Define the international working group and conveners
- Next open meeting will be held on **January 14 and 15, 2013**

What's next

- After the August meeting
 - We started collaborative works in the framework of new organization (sub-WGs)
 - started writing documents to set plan/milestone for each sub-WGs/subjects.
- In this followup meeting
 - We expect to hear group's **plan and milestone**
 - Development work **status**
 - Updated **detector design**
 - **Physics** capabilities and **requirements to detector design**

Some of (biased?) major questions

- What requirements by physics, especially solar/supernova ν observation?
 - Overburden (muon rate) is acceptable? How does it impact on physics?
 - Photo-sensor specification etc
 - Required photo-sensor area, number of walls
 - We need to measure... urgent if we need to change...
- Requirements for... and near detector system.
 - ... and required measurements
- ... cavern, water proof tank construction
- ... water source(s) and circulation system
- Feasibility of new photo-sensors, electronics, computer system
- Calibration requirement, deployment system etc

Coherent work among group is necessary

Proposal document

- I'd like to start discussion on writing Hyper-K Proposal.
 - Physics
 - Concrete requirements to detector design
 - HK, beam, near detector system
 - Detector design if possible.
- Time scale 1 years?
- Your feedback is necessary.

Supplements

Misc.

- According to the doodle poll, next meeting date is
 - June 21-22 (Friday and Saturday)
 - @ this room (IPMU building)
- Software release to non-SK&non-T2K Hyper-K members
 - We will start discussions w/ representatives of SK and T2K.
 - Distribution system (hardware/software) will be managed by the software sub-WWG (convener: Miura)
 - Please inform us details of your request (which software, when you want to use etc)
- HK computing
 - discussions are welcome. have close communication w/ the DAQ group and software group.

Documents (1/2)

- Various internal documents
 - startup documents of each sub-WG to set plans/ milestones
 - kind of technical design reports
 - already started writing documents for the cavern (site) and tank, calibration system, computing, etc.
 - sensor and electronics, DAQ, water system to be ready in ~1 year.
 - Nice if we can write a initial design for beam-line, near detector complex.
 - Updated documents for physics study for each physics target.
 - CPV
 - solar, supernova
 - atmnu, pdecays

Documents (2/2)

- Then, we will collect these materials to produce
 - Documents w/ appropriate format for PAC, some review process etc
 - One open full document to discuss w/ funding agency (MEXT etc).
 - Let's set target day as **1 year**.