

Hyper-K International Organization

T. Nakaya for IBR

project co-leaders from international members

International Board Representative

Chair (usually to be elected if we have a collaboration and rules, probably for now to be nominated)

International Board Representatives
Ex-officio:
Chair Steering Comm: Nakaya
Project Leader: Shiozawa
Intern. Tech. Coordinator(s):

Charge: Monitors the financial aspects of the experiment and the funding requests in each Country.

Proposed Structure

Steering Committee (or Project Management)

Chair: Nakaya
Project Leader: Shiozawa
J-PARC: Aihara
KEK: Kobayashi
Kamioka: Nakahata

[Redacted]

Physics: Yokoyama

[Redacted]

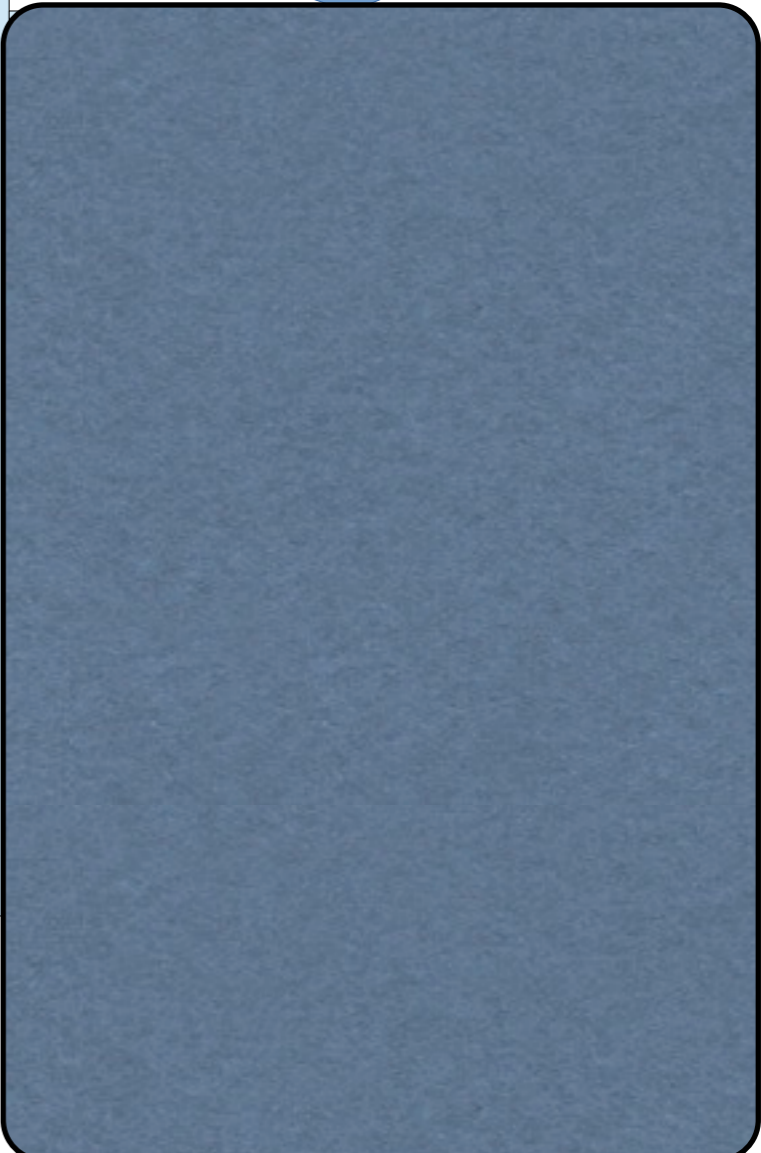
+ 4 international members
(usually to be elected if we have a collaboration and rules, but for now to be nominated)

Charge: responsible for making or approving major scientific or technical decisions. It should be representative of the collaboration as a whole as much as possible, but the primary requirement is that it possesses sufficient expertise to guide the collaboration.

Convener Board

Project Leader (chair): Shiozawa
WG1: conveners
WG2: conveners
....

Charge: Provide coordination of all the hw, sw and physics activities towards the full design of the experiment.



Hyper-K International Organization in the stage of proto-collaboration

- International Board Representative (IBR)
- Conveners board
- (International) Steering Committees (iSC)

International Board Representative

- Charge
 - Make the rule of collaboration (a draft may be prepared in iSC).
 - Promote the funding requests in each country
 - Monitor the financial aspects of the experiment.
 - Confirm proposals from iSC about project steering (such as nomination of conveners)
- Membership
 - One or two members from each country. **The chair will be selected among the IBR members.**
 - Ex-officio: iSC members

Conveners board

- Charge
 - Provide coordination of all the hardware, software and physics activities towards the full design of the experiment.
 - Technical decisions of each R&D subjects which should be confirmed by iSC (and IBR?).
- Membership
 - Project leader (M. Shiozawa)
 - Deputy-Project leaders **(NEW: a few members)**
 - conveners of each working group. We will modify/create the new working groups.
 - WG7: Near detector
 - WG8: beam & accelerator

(International) Steering Committee

- Charge
 - responsible for making or approving major scientific or technical decisions. It should be representative of the collaboration as a whole as much as possible, but the primary requirement is that it possesses sufficient expertise to guide the collaboration.
 - Appoint members in conveners board including project leaders in consultation with IBR
 - Promote the Hyper-K project in Japan and in the world.
 - Select the Hyper-K speakers in the international conferences
 - Check the Hyper-K material (proceedings, etc..)
- Membership
 - Chair:
 - IBR chair (co-chair of the iSC)
 - ICRR representative
 - KEK representative
 - Project leaders:
 - Physics conveners:
 - International members (up to 4)
 - The members will be proposed in the current steering committee in consultation with IBR in the first round. Later, we will ask IBR how to select the members.

IBR chair

- From the IBR members
- Co-chair of International Steering Committee
- Promote/arrange the discussions on the international contributions to Hyper-K
- **To be announced at the Hyper-K symposium on Saturday.**

iSC members

- Considering the regional valance which is important to discuss the international responsibilities in Hyper-K (and international status)
 - two members from Europe
 - one member from Canada
 - one member from US
- **To be announced at the Hyper-K symposium on Saturday.**

New working group conveners

- We also discuss the new working group convenes to make the Hyper-K group more international.
- **New conveners will be also announced at the Hyper-K symposium on Saturday.**

Design Report

- We have many physics study papers. In addition to physics (update), we should include
 - Design of the Hyper-K detector, Excavation and the operation plan
 - Request to J-PARC
 - Design of Near detector
 - Realistic schedule
 - Budget with our best estimate and the strategy
 - We may have to show a few options by considering how to reduce the total budget. ~\$1B will be too much for the current Japanese government.
 - International responsibilities (with agreements)
 - well define the role of Japan for the project
 - define the role of international partners

Detector design

- We must convince reviewers/managements that we are ready for budget request of real experiment
- Making a optimum design for the report is crucial
 - Optimum cavern location and shape
 - Liner material and design
 - Outer detector design (width, PMT density etc)
 - water system
 - PMT support structure
 - FV cut (can we reduce 2m Dwall cut?)
 - Photo-detector size, density, accessories
 - DAQ electronics and computers
 - Calibration strategy
 - Near detector complex
 - Maximized physics potentials

Many places to contribute

We have only 6 month for the first draft

Notional Timeline

- 2015/1 [HK meeting](#)
- 2015/4–5 Cavity design ready

- 2015/6 Tank design ready
Selection of photo-sensor size and number
- 2015/7 [7th Hyper-K meeting?](#)
Fix the basic design of the detector
First rough draft ready

- 2015/9 Second draft ready
[face-to-face meeting?](#)

- 2015/10 submission to KEK/ICRR