

# **6th Open Meeting for the Hyper-Kamiokande Project**

**Wednesday 28 January 2015**

**Near Detector/Flux Meeting - Seminar Room (09:00-12:00)**

- Conveners: Prof. Hartz, Mark (Kavli IPMU (WPI), The University of Tokyo/TRIUMF)

## Thursday 29 January 2015

### Registration - Lecture Hall (08:30-10:30)

### Convener Meeting - Seminar room A (09:00-10:00)

### Opening Session - Lecture Hall (10:30-10:50)

time	title	presenter
10:30	Opening remark (00h20')	SHIOZAWA, Masato (ICRR, The University of Tokyo)

### Cavity and Tank - Lecture Hall (10:50-11:50)

time	title	presenter
10:50	Detector design studies for CDR (00h20')	SHIOZAWA, Masato (ICRR, The University of Tokyo)
11:10	Cavity design and optimization (00h20')	TANAKA, Hide-Kazu (ICRR, University of Tokyo)
11:30	Cavity design and optimization II (00h20')	ISHIDA, Taku (KEK)

### Lunch Break - Lecture Hall (11:50-12:50)

### Cavity and Tank - Lecture Hall (12:50-14:00)

time	title	presenter
12:50	Tank design and optimization (00h20')	NAKAYAMA, Shohei (ICRR, The University of Tokyo)
13:10	Pressure-resistance of photo-sensor and cover (00h20')	NISHIMURA, Yasuhiro
13:30	Background Study for thin Hyper-K OD (00h20')	YANO, Takatomi (Kobe Univ.)
13:50	Summary and plan (00h10')	SHIOZAWA, Masato (ICRR, The University of Tokyo)

### Physics Potentials - Lecture Hall (14:00-14:20)

time	title	presenter
14:00	Off-Axis angle optimisation studies (00h20')	SHAH, Raj (Oxford University)

### Break - Lecture Hall (14:20-14:40)

### Physics Potentials - Lecture Hall (14:40-16:10)

time	title	presenter
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14:40	HyperK potential to study the leptonic unitarity triangle (00h20')	KONAKA, Akira (TRIUMF/RCNP)
15:00	HK Sensitivity to Sterile Neutrinos and Lorentz Violation (00h20')	HIMMEL, Alexander (Duke University)
15:20	Spectrometry of the Earth core using Hyper-K : Sensitivity study (00h15')	TAKETA, Akimichi (Earthquake Research Institute)
15:35	Supernova study with Hyper-K (00h15')	YANO, Takatomi (Kobe Univ.)
15:50	Summary and prospects of physics group activities (00h20')	YOKOYAMA, Masashi (University of Tokyo)

**IBR Meeting - Lecture Hall (16:10-18:10)**

# Friday 30 January 2015

## Registration - Lecture Hall (08:30-09:00)

## Opening Session - Lecture Hall (09:00-09:20)

time	title	presenter
09:00	EC/IBR report and proto-collaboration (00h20')	NAKAYA, Tsuyoshi (Kyoto University)

## Water System - Lecture Hall (09:20-09:45)

time	title	presenter
09:20	Overview and source water studies in Mozumi (00h15')	SEKIYA, Hiroyuki (ICRR/IPMU)
09:35	Gd Studies in Mozumi (00h10')	VAGINS, Mark (IPMU)

## Photo-detector and Accessories - Lecture Hall (09:45-10:55)

time	title	presenter
09:45	Update on Development of ETEL/ADIT 11" HQE PMT's (00h20')	KEARNS, Ed (Boston University)
10:05	Status of the Photosensor Test Facility at TRIUMF (00h25')	FEUSELS, Tom (University of British Columbia)
10:30	Performance evaluation of the 50 cm box-and-line dynode photomultiplier tube (00h25')	JIANG, Miao (Kyoto University)

## Break - Lecture Hall (10:55-11:15)

## Photo-detector and Accessories - Lecture Hall (11:15-11:50)

time	title	presenter
11:15	Test of new photodetectors in a water tank (00h20')	NISHIMURA, Yasuhiro (ICRR)
11:35	Photodetector R progress and plan (00h15')	NISHIMURA, Yasuhiro (ICRR)

## Lunch - Lecture Hall (11:50-12:50)

## DAQ and Electronics - Lecture Hall (12:50-13:50)

time	title	presenter
12:50	DAQ R status in Japan and US (00h20')	HAYATO, Yoshinari (Kamioka obs., ICRR, Univ. of Tokyo)
13:10	Canadian Electronics R&D (00h20')	LINDNER, Thomas (TRIUMF)
13:30	UK DAQ activities (00h20')	BARR, Giles (University of Oxford)

**Detector Calibration - Lecture Hall (13:50-14:35)**

time	title	presenter
13:50	HK calibration: introduction and overview (00h10')	TANAKA, Hide-Kazu (ICRR, University of Tokyo)
14:00	Calibration Source Deployment System (00h20')	SUZUKI, Atsumu (Kobe University)
14:20	LED Calibration System (00h15')	MCCAULEY, Neil (University of Liverpool)

**Break - Lecture Hall (14:35-14:55)****Software - Lecture Hall (14:55-16:30)**

time	title	presenter
14:55	Introduction (00h10')	WALTER, Chris (Duke)
15:05	Recent updates to the WCSim software package (00h20')	O'SULLIVAN, Erin (Duke University)
15:25	FITQun Event Reconstruction (00h20')	WILKING, Michael (Stony Brook University)
15:45	Generalized Neutrino Event Generator (00h10')	KACHULIS, Christopher (Boston University)
15:55	Computing for Hyper-K (00h20')	DI LODOVICO, Francesca (Queen Mary, University of London)
16:15	Summary of the Software session and Prospects (00h15')	MIURA, Makoto (Kamioka Observatory, ICRR, University of Tokyo)

**Break - Lecture Hall (16:30-16:50)****J-PARC and Beamline - Lecture Hall (16:50-17:35)**

time	title	presenter
16:50	J-PARC status and upgrade plans (00h25')	KOSEKI, Tadashi (KEK)
17:15	Neutrino beam-line status and upgrade plans (00h20')	FUJII, Yoshiaki (KEK)

**Near Detectors - Lecture Hall (17:35-18:15)**

time	title	presenter
17:35	NuPRISM Overview (00h20')	WILKING, Michael (Stony Brook University)
17:55	NuPRISM Analysis Overview (00h20')	SCOTT, Mark (TRIUMF)

# Saturday 31 January 2015

## Registration - Lecture Hall (08:30-09:00)

## Near Detectors - Lecture Hall (09:00-10:35)

time	title	presenter
09:00	TITUS: Introduction to the Intermediate Detector and Physics (00h30')	MALEK, Matthew (Imperial College London)
09:30	A Magnetized Muon Range Detector for TITUS (00h20')	RAYNER, Mark (Université de Genève)
09:50	A 3D grid-like neutrino near detector with a water target, WAGASCI (00h25')	MINAMINO, Akihiro (Kyoto University)
10:15	Applications of Water-based Liquid Scintillator in the T2K Near Detector (00h20')	YEN, Stanley (TRIUMF)

## Break - Lecture Hall (10:35-10:55)

## Summary - Lecture Hall (10:55-11:55)

time	title	presenter
10:55	Summary (01h00')	

## Inaugural Symposium of the Hyper-Kamiokande Proto-collaboration - Room1+2 (14:00-15:30)

time	title	presenter
14:00	Overview of the Hyper-Kamiokande Project (00h10')	SHIOZAWA, Masato (ICRR, The University of Tokyo)
14:10	The J-PARC Neutrino Beam Facility (00h10')	KOBAYASHI, Takashi (KEK)
14:20	The International Proto-Collaboration (00h15')	DI LODOVICO, Francesca (Queen Mary, University of London)
14:35	International Cooperation (00h15')	WALTER, Chris (Duke University)
14:50	Memorandum for the Promotion of the Hyper-Kamiokande Project (00h15')	YAMAUCHI, Masanori (KEK) KAJITA, Takaaki (University of Tokyo)
15:05	Closing (00h10')	NAKAYA, Tsuyoshi (Kyoto)