

Report of 2nd Korea-Japan Workshop

KAGRA F2F meeting

Jul. 31, 2012

Seiji Kawamura (ICRR)

2nd Korea-Japan Workshop on KAGRA

- **May 28 – May 29, 2012**
- **ICRR, Japan**
- **Scientific Advisory Committee**
 - Takaaki Kajita, Ichiro Nakatani, Hyung Mok Lee, Donghyun Cho
- **Scientific Organizing Committee**
 - Seiji Kawamura, Norikatsu Mio, Tai Hyun Yoon, Hyung Won Lee
- **Five Korean researchers attended the workshop**
 - Kyuman Cho, Hyung Won Lee, Sang Hoon Oh, Edwin Jaeju Son, Tai Hyun Yoon

Photo



Program

May 28 (Mon)

10:00-10:10 Opening Talk: Takaaki Kajita

10:10-11:00 Current status of the collaboration research I (Chair: Edwin J. Son)

Hyung Won Lee / Hideyuki Tagoshi "Data Analysis"

Nobuyuki Kanda (presented by Hideyuki Tagoshi) "Data Branch"

Seiji Kawamura "Interferometer/Quantum Optics"

Ryutaro Takahashi "Vibration Isolation"

Kazuhiro Hayama "Detector Characterization"

11:00-12:00 Relevant research I (Chair: Masaki Ando)

Kazuhiro Hayama "Strategy of KAGRA detector characterization"

Sang Hoon Oh "Multivariate Classification of Noise Artifacts using Auxiliary Channels"

Hideyuki Tagoshi "Reduced basis method for the templates of the inspiraling compact binaries"

13:00-14:30 Relevant research II (Chair: Shinji Miyoki)

Hyung Won Lee "Stochastic gravitational wave and parameter estimation"

Yoichi Aso "Introduction to the KAGRA interferometer"

Kentaro Somiya "Advanced techniques to reduce quantum noise"

Kyuman Cho "A new method for compensating for periodic nonlinearity in a heterodyne interferometer"

14:30-15:00 Current status of the collaboration research II (Chair: Kyuman Cho)

Tai Hyun Yoon / Norikatsu Mio "Laser"

15:30-16:30 Discussion about the future collaboration (Chair: Tai Hyun Yoon and Seiji Kawamura)

Riccardo DeSalvo "The Elites ET-KAGRA collaboration, an example to follow?"

Discussion

16:30-17:30 Lab tour (Organizer: Ryutaro Takahashi)

May 29 (Tue)

(Morning: KAGRA international collaboration meeting)

13:00-15:00 Relevant research III (Chair: Kazuaki Kuroda)

Edwin J. Son "EM Followup of Gravitational Wave Events"

To Do for the next step

- **Long range view point is necessary.**
- **Use graduate school program in Japan for foreign students, especially Asian students.**
- **Visit many universities for recruiting students.**
- **Collaboration MOU: First draft written by Kawamura; now being checked by Hyung Mok Lee**

Action items

- **Kawamura: Make a draft of Collaboration MOU with Tai Hyun Yoon**
- **Hayama: Visit John J. Oh (NIMS) for a week to discuss the collaboration on detector characterization**
- **Miyoki: visit Kyuman Cho (Sogang University) for a week to discuss the collaboration on interferometer**
- **Mio: Continue the collaboration with Tai Hyun Yoon on Laser**
- **Tagoshi: continue the collaboration with Hyung Won Lee on data analysis**
- **Kanda: Continue the collaboration with Gungwon Kang on data branch**
- **Takahashi: Contact Jaewan Kim to seek for the collaboration possibility**
- **Kawamura: Invite Jai-Min Choi to ICRR to discuss the possible collaboration**

3rd Korea-Japan Worksop on KAGRA

- **December 21 and 22, 2012 at Sogang University in Seoul**
- **We should start discussing this soon.**