

ELiTES: Second general meeting

chaired by Michele Punturo, Kazuaki Kuroda (ICRR, The University of Tokyo)

from **Wednesday, 4 December 2013 at 09:00** to **Thursday, 5 December 2013 at 17:30 (Japan)**
at Europa House - Tokyo

Delegation of the European Union to Japan Europa House 4-6-28 Minami-Azabu, Minato-ku, Tokyo 106-0047 Japan

Description Second general meeting of the [ELiTES](#) collaboration. The ELiTES project is an European-Japanese collaboration, supported by the European Commission under FP7-People, focused on the cryogenic technologies for the future gravitational wave detectors and observatories: [KAGRA](#) and [ET](#). The progresses of the GW projects, the status of the ELiTES collaboration and the future activities will be discussed. The session of the 4th of December is hosted by the [Delegation of the European Union to Japan](#). The second day in the [Sanjo Conference Hall](#) in Hongo Campus of University of Tokyo. Click [here](#) to see these sites in a map.

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Wednesday, 4 December 2013

- 09:00 - 10:00 **Registration**
Registration to the workshop
- 10:00 - 13:00 **Opening Session**
Welcome and general subjects
- 10:00 **Welcome by EU Delegation representative 10'**
 Speaker: Dr. Barbara Rhode (European Delegation to Japan)
- 10:10 **Welcome by MEXT representative 10'**
 Speaker: Shintaro Seto (Ministry of Education, Culture, Sports, Science and Technology)
- 10:20 **ELiTES and European Strategy of the ET Project 30'**
 Speaker: Michele Punturo
- 10:50 **KAGRA Status 30'**
 Speaker: Raffaele Flaminio
- 11:20 **Coffee Break 20'**
- 11:40 **Advanced Virgo status 30'**
 Speaker: Fulvio Ricci
- 12:10 **Advanced LIGO status 30'**
 Speaker: Prof. James Hough (University of Glasgow)
- 12:40 **The Einstein Telescope Project 20'**
 Speaker: Harald Lueck
- 13:00 - 14:30 **Lunch**
- 14:30 - 18:00 **WP3-Infrastructures**
 Convener: Prof. Kentaro Somiya (Tokyo Institute of Technology)
- 14:30 **Infrastructures and excavation issues in KAGRA 20'**
 Speaker: Prof. Shinji Miyoki (Institute for Cosmic Ray Research, the University of Tokyo)
- 14:50 **Safety issues in the Kamioka mine 20'**
 Speaker: Dr. Naoko Ohishi (ICRR(NAOJ))
- 15:10 **Environment monitor and seismic noise in Kamioka 20'**
 Speaker: Dr. Akiteru Takamori (Earthquake Research Institute, University of Tokyo)
- 15:30 **Updates on ET site issues 30'**
 Speaker: Jo van den Brand
- 16:00 **Coffee Break 20'**
- 16:20 **Correlated magnetic noise in Kamioka 30'**
 Speaker: Prof. Kazuhiro Hayama (Osaka City University)
- 16:50 **Discussion on underground environmental sensors 30'**
- 17:20 **Overview of KAGRA cryogenic payload development 30'**
 Speaker: Kazuhiro Yamamoto

Thursday, 5 December 2013

- 09:30 - 12:30 **WP1 - WP2 joint activities**
 Convener: Dr. Ettore Majorana (INFN) Ronny Nawrodt

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Location: Hongo Campus

09:30 **WP1 and 2 joint activities 15'**

Speakers: Ronny Nawrodt, Dr. Ettore Majorana (INFN)

09:45 **Modelling and testing of cryogenic sapphire suspensions 30'**

Speaker: Dr. Giles Hammond (University of Glasgow)

10:15 **The issue of vertical filter in cryogenic environment 30'**

Speaker: Eric Hennes (Nikhef)

10:45 **Coffee Break 15'**

11:00 **Model of full suspension and payload of KAGRA 30'**

Speaker: Mr. Takanori Sekiguchi (ICRR, U. Tokyo)

11:30 **Study of radiation shield vibration in KAGRA cryostat 30'**

Speaker: Mr. Dan Chen (The university of Tokyo)

12:00 **Heat and vibration measurement of KAGRA duct shields 30'**

Speaker: Mr. Yusuke Sakakibara (Institute for Cosmic Ray Research (ICRR), University of Tokyo)

12:30 - 14:00

Lunch (<http://www.u-tokyo.ac.jp/campusmap/restaurantmap.pdf>)

14:00 - 17:30

WP1 - WP2 joint activities

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Location: Hongo Campus

14:00 **KAGRA cryogenic suspension WG - Report of current status and scheduled experiments and simulations 30'**

Speaker: Dr. Aleksandr Khalaidovski (ICRR)

14:30 **R&D on components for cryogenic mirror suspensions 30'**

Speaker: Dr. Alessandro Bertolini (Nikhef)

15:00 **Q measurements of sapphire samples for KAGRA suspension 30'**

Speaker: Mr. Dan Chen (The university of Tokyo)

15:30 **Coffee Break 15'**

15:45 **Bonding experiments for cryogenic detectors 30'**

Speaker: Rebecca Douglas (Glasgow University)

16:15 **nm-layered coatings: status and perspectives 30'**

Speaker: Prof. Innocenzo M Pinto (University of Sannio at Benevento, INFN, LVC and KAGRA)

16:45 **Optical Interference Coatings: from advanced to future GW detectors 30'**

Speaker: Prof. Gianpietro Cagnoli (Laboratoire des Matériaux Avancés - CNRS and Université de Lyon)

17:15 **Concluding remarks 15'**