

Summary of the 18th F2F@ Tokyo Tech

1 bKAGRA phase-1 operation

- Installation, integration and commissioning are on schedule. “well done”
- Phase-1 operation will start in April 2018, and will finish no later than the end of May 6.
- Phase-2 starts on May 7.
- Write a full author paper at the end of phase-1 as a milestone of our achievements. (Details would be supposed to be prepared as separate papers by each subgroup).
- KSC boards will collect comments on the plans for the paper, and decide the **paper-writing team** by the end of Jan 2018. The paper-writing team will provide baselines on deciding the content of paper, target journal, etc.
- In order to accelerate the editing procedure, the board proposes to use wiki (closed within collaboration) for collecting comments.

Note: This proposal was approved.

Summary of this F2F (2)

2 Roadmap to phase-2/3


Note: This proposal was approved.

Join to LIGO/Virgo O3 run ? (2018-2019, at least its late phase)

Joining LIGO/Virgo-O3 or not

Scientific Viewpoint

- Confirmation the observation is hard with a single detector unless the signal is large enough
- Showing our “fundamental direction” to GW networks is important.
- The earlier, the better for negotiation & preparation.



 **Data management groups say “YES”**

Installation/Commissioning Viewpoint

- tight schedule, “death march”

 **Check the steps and conclude soon**

If there are no objections, we would like to set these comments as a conclusion of this F2F.

  We will back this point tomorrow.

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Summary of this F2F (3)

3 Establishing Theory/Multi-messenger groups under KSC

Main Tasks: Theory (or Theoretical Astrophysics) group

- (a) contribute to analysis (interpretations, alternative possibilities, ...)
観測データに対する解釈・可能性の議論
- (b) suggestions to new scientific projects of KAGRA
KAGRAを用いた新たな科学的成果獲得への具体的な提言
- (c) feasibility discussions of KAGRA future plans
KAGRA将来計画についての実験側・解析側との意見交換
- (d) promote gravitational wave physics
重力波物理学の推進

Main Tasks: Multi-Messenger (or Obs. Astronomy) group

- (a) maintain the alert system
アラート体制の確立・維持
- (b) connections to observational groups
天文観測グループとの情報共有
- (c) feasibility discussions of KAGRA future plans
KAGRA将来計画についての実験側・解析側との意見交換
- (d) promote multi-messenger science
マルチメッセンジャー科学の推進

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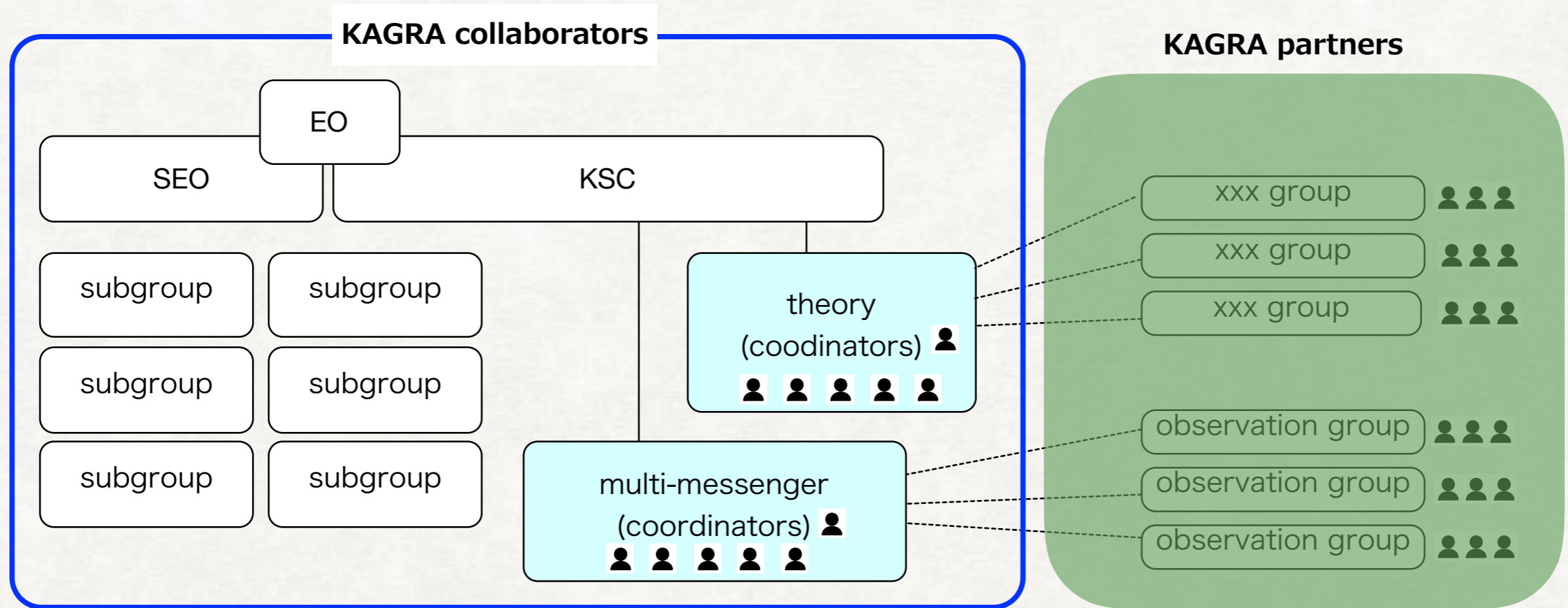
Basic idea is accepted. Worth trying to start.

(Note that we received a comment, "we do not need a theory group".)

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Summary of this F2F (4)

3 Establishing Theory/Multi-messenger groups under KSC (cont.)



Start calling members who are interested in joining to new group within us.

Until the chiefs are fixed, we call "xxx network".

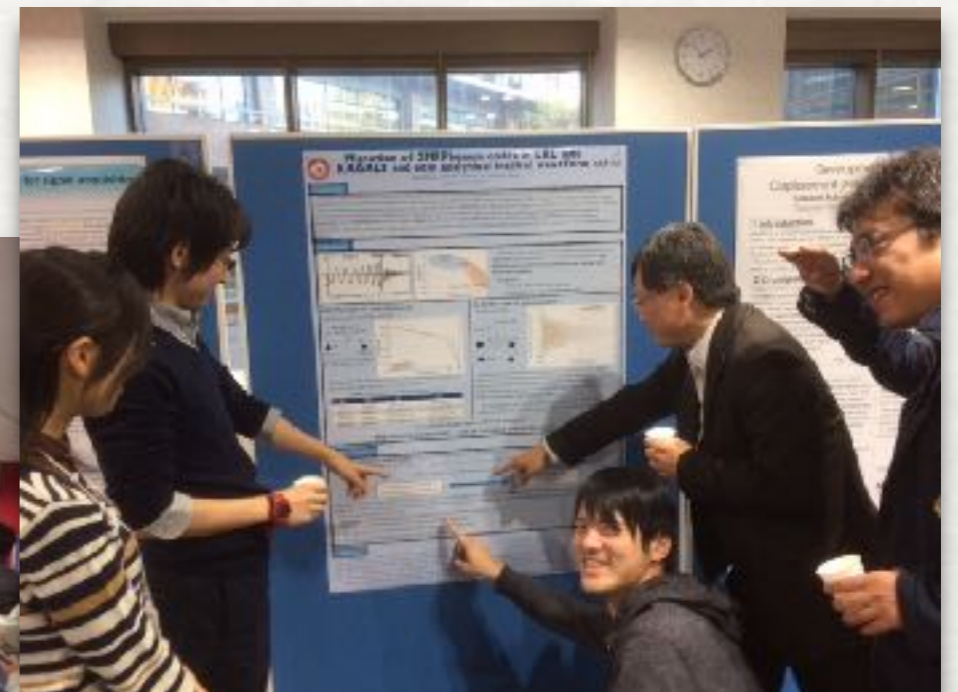
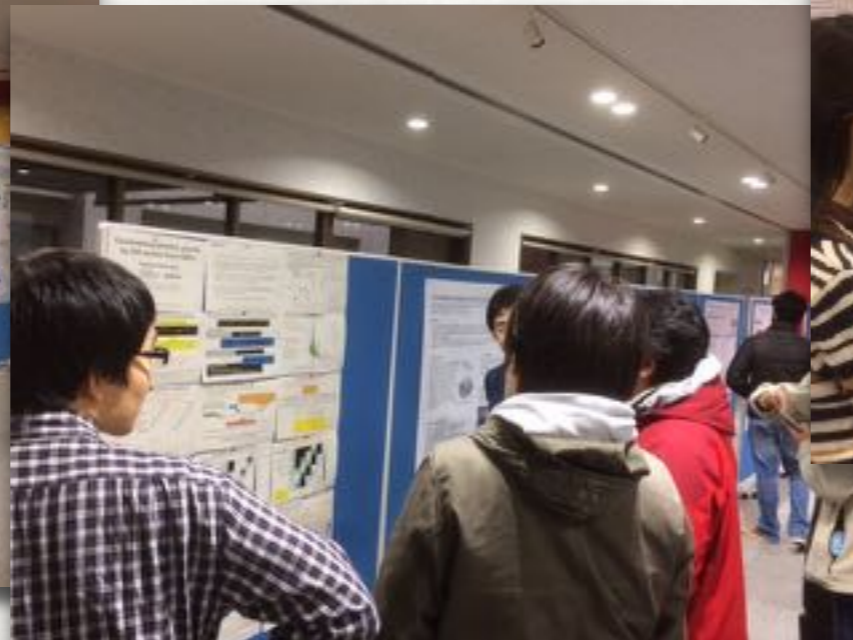
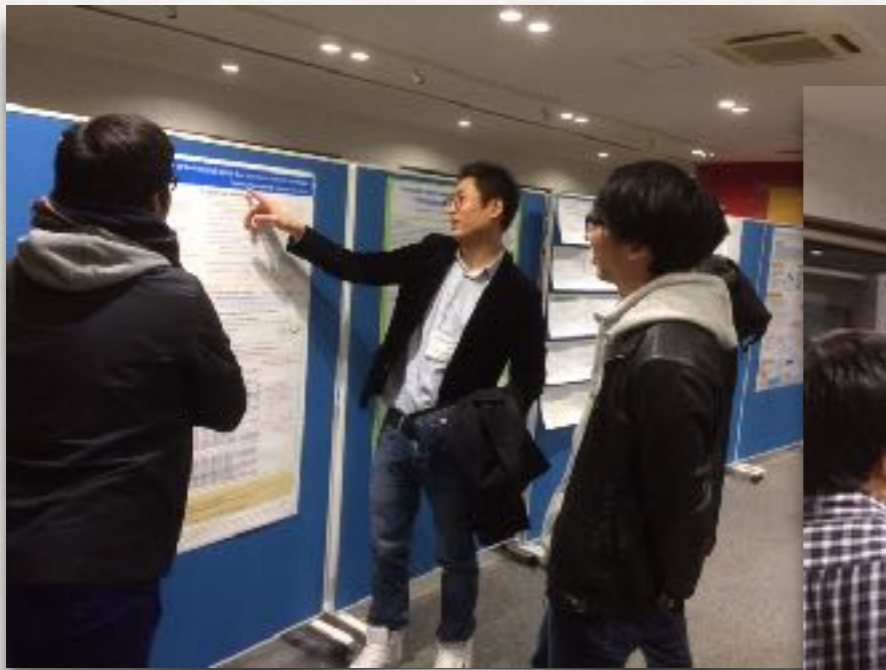
Note: This proposal was approved.

Need to clarify the definition of KAGRA partners. => Next F2F

Summary of this F2F (5)

4 Poster Session

- Originally planned for thesis session. But many younger researchers made presentations, than we expected.
- The session helps to promote our researches, to provide a chance of presentation, to know each other, .
- Young researchers' group proposes to hold this style at F2F, and also proposes to set "the award".



Summary of this F2F (6)

5 Two invited talks

- New Innovative area
Gravitational wave physics and astronomy: Genesis (PI: Takahiro Tanaka)
- Grant-in-Aid for Scientific Research (S)
Calibration Standard and High-Precision Data Analysis toward the
Observational Era of Gravitational Waves (PI: Nobuyuki Kanda)

6 New Member/New group

- Wenbiao Han, Shanghai Astronomical Observatory

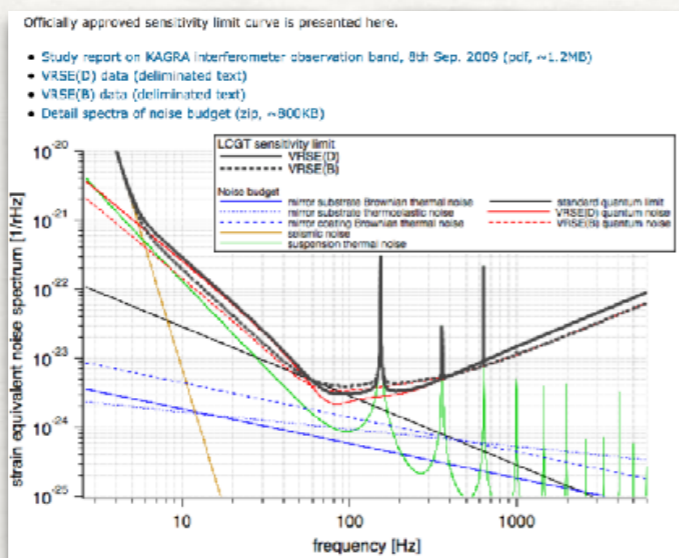
Report from KSC board (2)

☑ bKAGRA sensitivity curve : updated

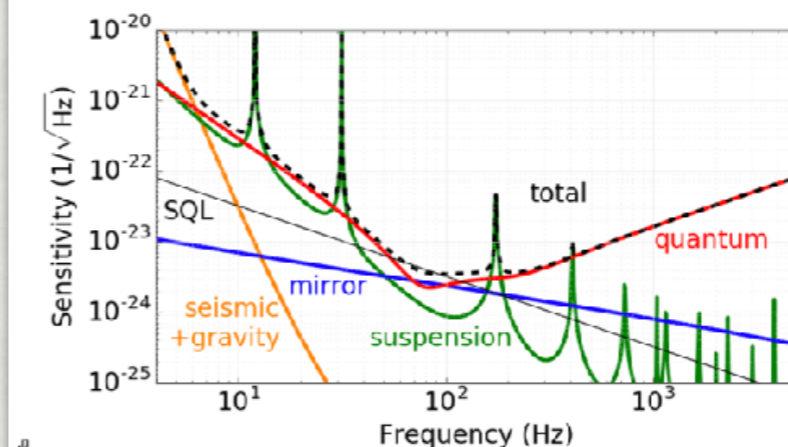
<http://gwcenter.icrr.u-tokyo.ac.jp/researcher/parameters>

<http://gwcenter.icrr.u-tokyo.ac.jp/en/researcher/parameter>

<http://gwwiki.icrr.u-tokyo.ac.jp/JGWwiki/KAGRA>



Target Sensitivity of bKAGRA



- Sensitivity data can be downloaded from [JGW-T1707038](#)
- Website about the KAGRA sensitivity is [here](#).
- Parameter list is [here](#).

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The official sensitivity curve(s) should not include the sensitivity below 10Hz.
memo of EO meeting (Aug. 7, 2017)



add in the web: "KAGRA is designed to use data in observations above 10 Hz."

Note: This proposal was not converged.

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List of requests to you (1)

Commissioning (Miyakawa)

If you conduct a commission, join to the commissioning mailing list, **gokagra**.

[JGW-G1707493: KAGRA commissioning work](#)

Start a bug report system, **Bugzilla**.

[JGW-G1707499: DGS and AEL status](#)

Diversity Committee (Kokeyama)

If you plan to join the activities, contact one of the committee members.

K. Kokeyama (ICRR) [chair], H. Shinkai (ICRR), C. Kim (KASI), J. M. Fedrow (Kyoto U.)

K. Sakai (Nagaoka U. Tech.)

[JGW-G1707505: Activity report from the KSC diversity committee](#)

[Submit a survey on Diversity](#) **Now**

List of requests to you (2)

Proposal of Poster Awards & Travel support for young researchers (Inoue)

Comments welcome to kscpostdoc@icrr.u-tokyo.ac.jp, kscstudent@icrr.u-tokyo.ac.jp

[JGW-G1707504: KSC_poster_Session](#)

Updating DetChar tools (Hayama)

Python programmer wanted.

[JGW-G1707517: DET status at F2F meeting at Titech, 2017](#)

How to lower the barriers for working at the Kamioka site (Aso)

Comments, proposals, & ideas to Aso-san.

[JGW-G1707503: How to lower the barrier for site works](#)

List of requests to you (3)

To be mailed soon the details with the following deadlines

- a** by Dec 31 : **Phase-1 paper writer** volunteers
- JGW-M1707473: Review of the iKAGRA Paper Writing Process
 - JGW-M1707477: Discussion and decision on phase-1 paper

- b** by Dec 31 : calling **new subgroup (network)** members
(Theory or Multi-messenger) from KAGRA collaborators
- JGW-G1707466: Establishing Theory/Multi-messenger groups

- c** **KSC member** check
- JGW-M1706134: KSC member list
 - JGW-M1504017: Society Regulations of KAGRA Scientific Congress
- (1) One congress member from each institute
 - (2) In addition to the above rule, one congress member per 4 KAGRA collaborators in each institute.

Our Next Schedule

April-May 2018: bKAGRA phase-1 operation

May 18(Fri)-20(Sun), 2018:

19th Face-to-Face meeting @ Osaka City University

June 29(Fri)-30(Sat), 2018:

4th KAGRA International Workshop @ KASI, Daejeon, Korea

KSC board accepts proposals for satellite meeting on June 28 or July 1

Late August, 2018:

20th Face-to-Face meeting @ Toyama University

Many thanks to

Talkers, Poster presenters

and

LOC, Somiya-san & Tokyo Tech members for hosting this F2F