## Summary of the 18th F2F@ Tokyo Tech

## **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)

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.

H. Shinkai, the 18th face-to-face meeting @Tokyo Tech, Dec 5/2017 6

# Summary of this F2F (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

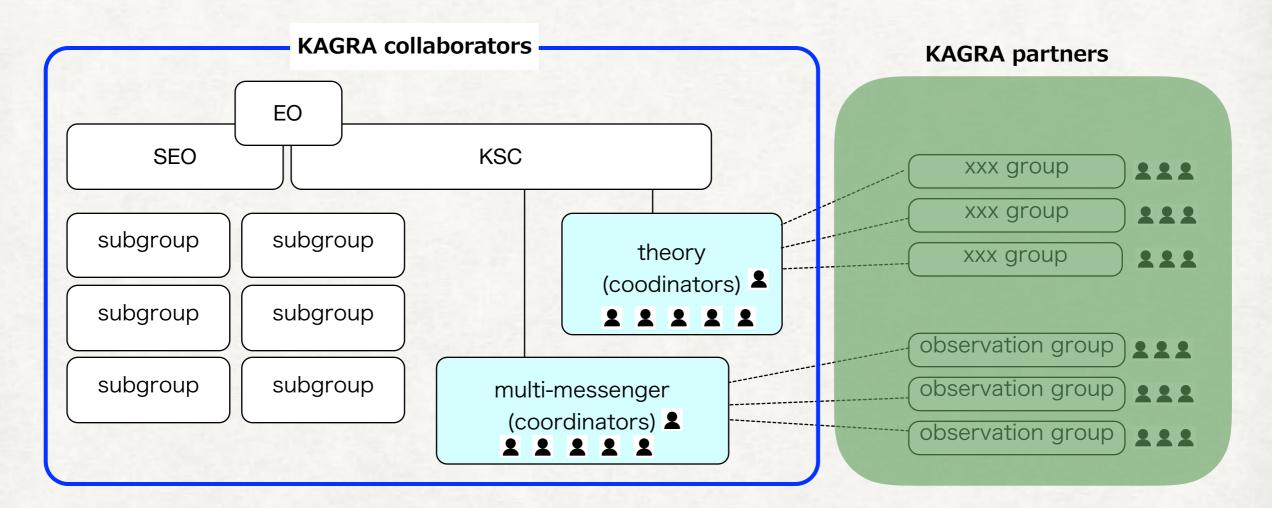
H. Shinkai, the 18th face-to-face meeting @Tokyo Tech, Dec 5/2017 3

Basic idea is accepted. Worth trying to start.

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

# 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.

H. Shinkai, the 18th face-to-face meeting @Tokyo Tech, Dec 6/2017

Need to clarify the definition

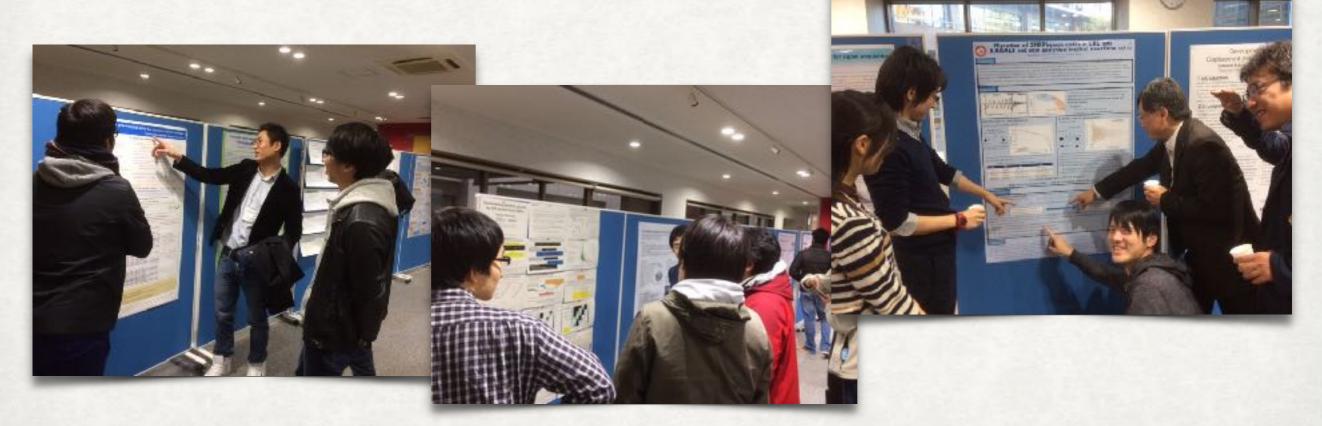
of KAGRA partners. => Next F2F

# Summary of this F2F (5)

## **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".

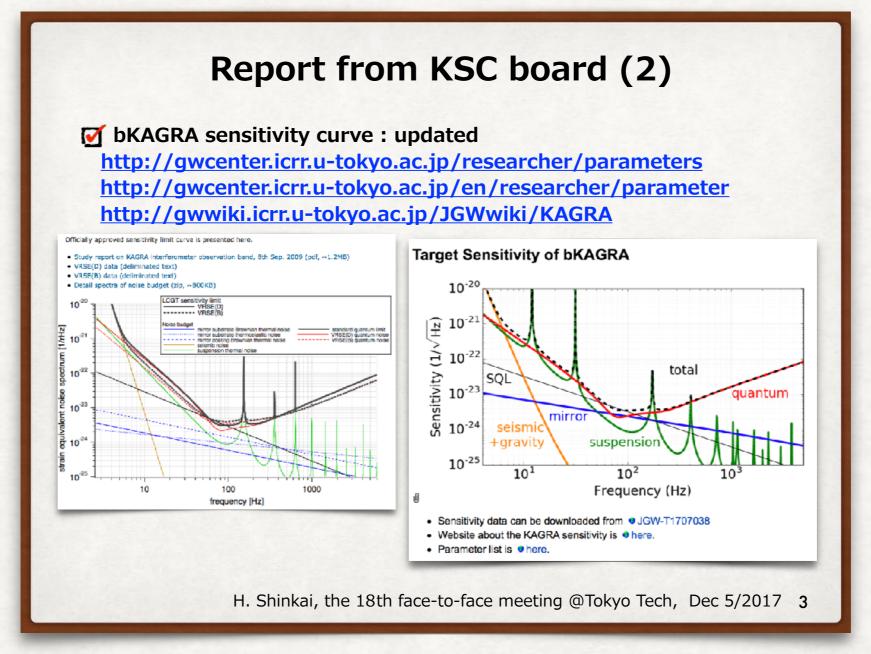


# Summary of this F2F (6)

- 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)
- New Member/New group
  - Wenbiao Han, Shanghai Astronomical Observatory

### **Note from the KSC board**

### **Sensitivity Curve**



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.

# 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

<u>Updating DetChar tools (Hayama)</u>

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

by Dec 31: Phase-1 paper writer volunteers

JGW-M1707473: Review of the iKAGRA Paper Writing Process

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, Daejoen, 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