FSC Meeting memo 2021.9.30 16:00-17:00 (JST)

[Haino, Somiya, Ando, Shao, Gao, Jin, Loenardi, Lee, Yamamoto, Saha ]

・Self introduction by new members

・Initial task assignment

🡪 Ask help for the open meeting, other tasks will be assigned in

the next meetings

・Reports

- Conferences

　　　\*　KAGRA F2F in August

🡪 Had a 1.5-hour session. Filter Cavity, Mirror, FSC

<https://dac.icrr.u-tokyo.ac.jp/KAGRA/KSC/f2f/2021August#session07>

🡪 Next KAGRA F2F will be on Dec 20-21, 2021 (TBD)

Possibility of satellite session for students, R&D is

under discussion in KSC board.

\* LVK in September 2021: Filter Cavity, FSC activity

<https://wiki.ligo.org/LSC/Meeting/LVKMeetingSeptember2021>

🡪 KAGRA future Workshop will be helpful in the upcoming LVK

There was coating discussions, no decision was made.

Lots of questions (and misunderstandings) on KAGRA

mirror performance. 🡪 Coherent explanations will be helpful.

\* Dawn VI meeting on 5,6,7 October 2021 🡪 Focus on CE

- Information of upcoming meetings

\* GWIC: Somiya attended as the LoC chair of GWADW

\* GWPAW in Hannover in December 20 (in person + online)

\* LVK in March Louisiana (in person + online)

\* KIW9 Beijing (TBD)

\* LISA sympo. next year (online)

・Action Items

- Open meeting for R&D activities

🡪 November 9th ,2021, Announcement done 【Somiya】

🡪 Select topics by FSC at first

~9 talks 20+10 min each

Suggested topic/ person:

- Meao on some new topic

- International filter cavity update, squeezing

- ( Reduction of violin mode by Tomaru + Kanda )

- Coating thermal noise

- Long recycling cavity by Komori

- Update in KAGRA+ sensitivity curve by Somiya (or somebody)

- Water gravity gradient noise

- (Mirror birefringence)

- (Wave front sensor)

- (Displacement-free interferometer)

- New idea or R&D in data analysis

🡪 Continue the discussion on e-mail 【A/I Somiya】

If the slot is not filled, consider in the following step

FWG mailing list 🡪 Nominate external people 🡪 Call to KAGRA ML

Presentation Time zone issue should be taken into account.

\* FSC wiki page framework is now ready. Contents should be filled later

\* Mailing list: working on subscription

FSC members will be added to FWG mailing list 【A/I Somiya】

- White paper update?

🡪 TBD in the next meetings

White paper will be revised (or reviewed) every year.

・Free discussions: None today

Next meeting:

End of Oct or Beginning of Nov.

Doodle Poll. Time zone will be 22:00 or 23:00 in JST?? 【A/I Ando】

・Information

- FSC presentation:

https://gwdoc.icrr.u-tokyo.ac.jp/cgi-bin/private/DocDB/ShowDocument?docid=13275

- FSC wiki:

http://gwwiki.icrr.u-tokyo.ac.jp/JGWwiki/KAGRA/KSC/FSC

- Mailing list:

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