







# Report of TTC-CB meeting in TTC2022-Aomori

Eiji Kako (KEK), TTC Chair Bob Laxdal (TRIUMF), TTC Deputy Chair

October 14<sup>th</sup>, 2022









# Thank you for your participation and fruitful discussions!



Eiji Kako (KEK, Japan) TTC2022-Aomori, 2022 October 14th



# Agenda





- 1. Confirmation of maintaining TTC statement and action
- 2. Presentations for new TTC-CB membership:
  - > JAEA/J-PARC, Japan
  - > IASF/DALS&S3FEL, China
- 3. Location and date of the next TTC in-person meeting:

in USA  $\rightarrow$  Europe  $\rightarrow$  Asia

4. Others





### TTC statement and action





#### TTC statement and action against the Russian government's invasion of Ukraine

Dear TTC collaborators,

Since the situation has not been drastically improved, our TTC statement and action should be maintained.

Further to our statement of March 8<sup>th</sup> we append the action shown below.

We condemn the military aggression by the Russian government against Ukraine and express our deep dismay at this unacceptable cruel behavior and our grave concerns about its impact. Such tragic events should never happen in the world. Our thoughts go to all the people suffering from the invasion of Ukraine, and to them we extend our deepest sympathy and support in this difficult time. As a peaceful, non-political scientific collaboration we stress the need for this war to end and ask all our TTC colleagues to support the peaceful resolution of the crisis.

While we continue to support the global scientific exchange between SRF technology experts and teams, due to the severity of the situation we are suspending participation of Russian institutes in TTC sponsored events and collaborations, until further notice.

#### March 11<sup>th</sup>, 2022

Approved by CB Eiji Kako, Bob Laxdal, Hans Weise, Paolo Pierini, Sergey Belomestnykh, and Akira Yamamoto (TTC Chairs and Executive Committee members).

> Eiii Kako (KEK, Japan) TTC2022-Aomori, 2022 October 14th





## New TTC-CB membership





### Presentations for a new TTC-CB membership

- Japan Atomic Energy Agency (JAEA):
   J-PARC project,
   by Yasuhiro Kondo (Tokai, Japan)
- Institute of Advanced Science Facility (IASF):
  Dalian Advanced Light Source (DALS) and
  Shenzhen Superconducting Soft X-ray FEL (S3FEL),
  by Han Li (Shenzhen, China)
  Approved by CB





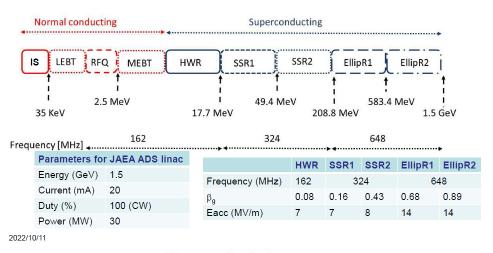
# SRF activities in JAEA (Japan)





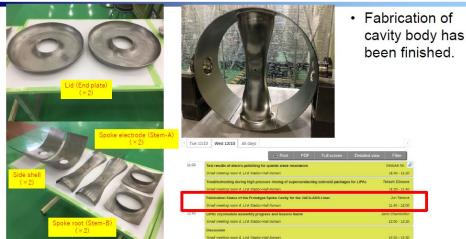
#### **Overview of the JAEA-ADS linac**





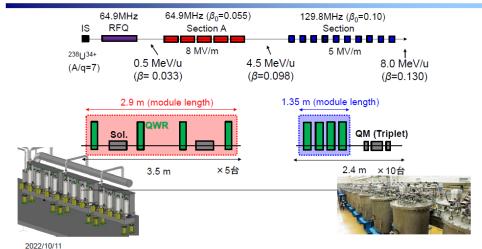






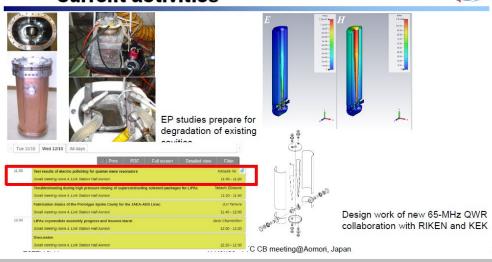
#### **Detail plan of the Tandem successor**





#### **Current activities**







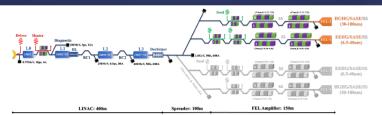


# SRF activities in IASF (China)





#### Dalian advanced light source (DALS)

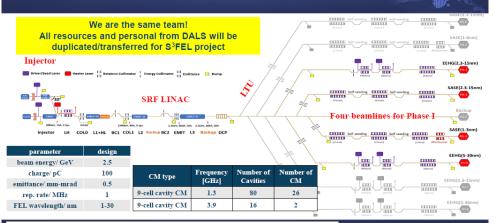


Parameter	design
beam energy/ GeV	1
charge/ pC	100
emittance/ mm-mrad	0.5
ren. rate/ MHz	1

CM type	Frequency [GHz]	Number of Cavities	Number of CM
9-cell cavity CM	1.3	80	10
9-cell cavity CM	3.9	16	2

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#### Shenzhen Superconducting Soft-X-Ray Free Electron Laser (S<sup>3</sup>FEL)



There is no soft X-ray FEL facility operating at MHz repetition rate in the world

#### Dalian advanced light source (DALS)



Eiji Kako (KEK, Japan)

- DALS R&D project launch on 2021/9/22
- 1 × injector test facility
- · 1 × SRF CM test facility
- · Cryoplant with 370 W@2 K

http://cryo.dicp.ac.cn/





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#### **Current situation**

Construction of the first building (office) for S3FEL is done in 09/2022. Civil engineering construction for Linac will be started soon.





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### Locations of next TTC meeting





### Location and date of the next TTC in-person meeting:

- > Region: North America
- Preferable date: early December 2023'
- Proposal of host laboratory:
  - FNAL by Sergey Belomestnykh
  - Any others?

Approved by CB





### Locations of future TTC meeting





### Location and date of subsequent future TTC in-person meeting:

- Region: Europe
- Preferable date: June/July 2024'
- Proposal of host laboratory:
  - ESS at Lund by Paolo Pierini, any other proposals?

### Location and date of subsequent future TTC in-person meeting:

- > Region: Asia
- Preferable date: early December 2024'
- Proposal of host laboratory:

Eiji Kako (KEK, Japan)

any proposals?



### **Others**







## New co-chairs of TTC High-Q/High-G Working Group

Co-chairs of TTC High-Q/High-G WG;

Martina Martinello (SLAC) : North America

Kensei Umemori (KEK) : Asia

Akira Miyazaki (Uppsala U.): Europe, a new co-chair







Approved by CB



### Others





◆ TTC chair would like to hold a regular TTC Executive Committee remote meeting every one/two months.

◆ The next TTC Collaboration Board meeting will be held during SRF2023 at MSU, (June 2023'), if necessary. (Attendance by a representative of your laboratory will be permitted, if your participation is not available.)









# **Special thanks to Local Organization Committee of QST:**



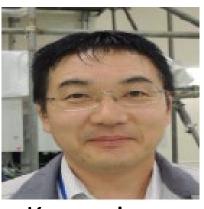
Kondo-san



Hasegawa-san



Akagi-san



Kasugai-san



Hirosawa-san



Masuda-san



Ebisawa-san



Yoshida-san



Takeishi-san









# See you in the next TTC in-person meeting at FNAL in Chicago, early December 2023'











# Thank you for your attention!