



SAKURA Workshop

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J-PARC, 10 JUNE 2024

DTL installation complete by INFN team





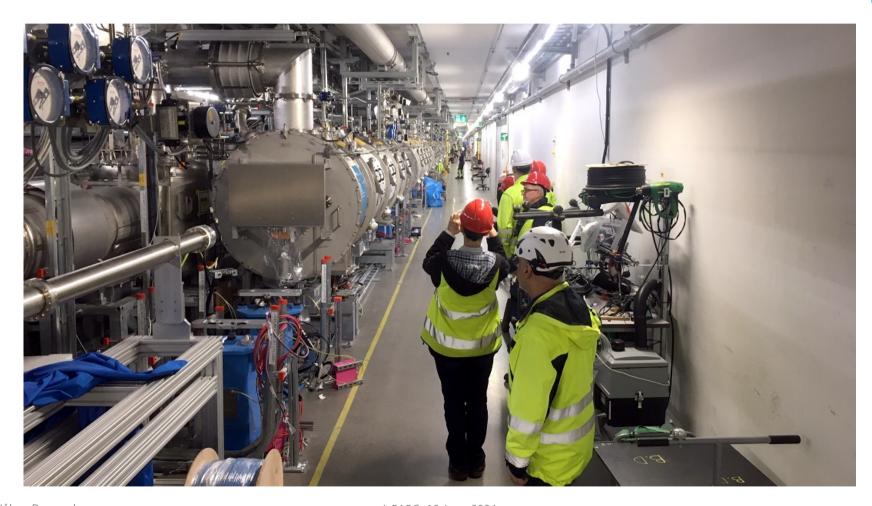
All spoke cryomodules installed

But one was vented





Medium and high-beta cryomodules installed



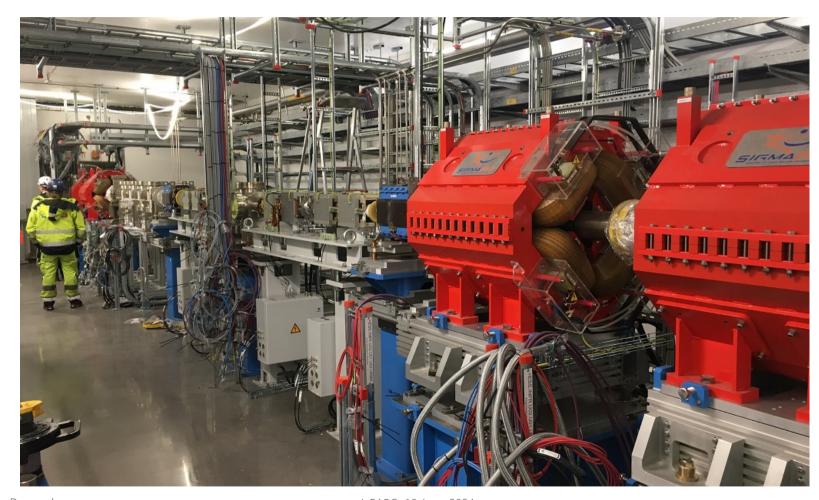
"Dogleg", from tunnel to surface level





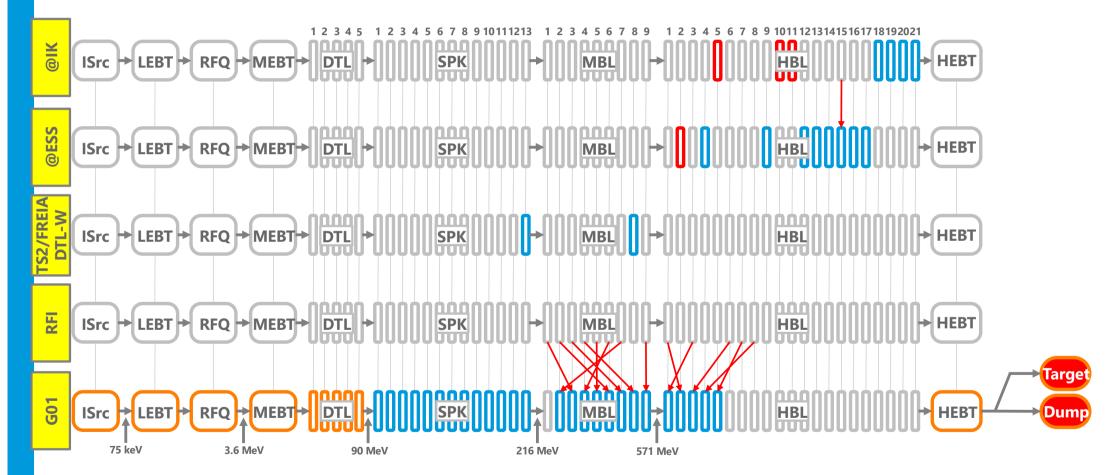
Beam-delivery system, rastering magnets





Cavity and cryomodule status





Specific topics



- Past and ongoing collaborations
 - Beam physics
 - Cryogenic Moderator System (H. Tatsumoto)
 - Beam instrumentation
 - Vacuum technology

Arcing in DTL RF windows

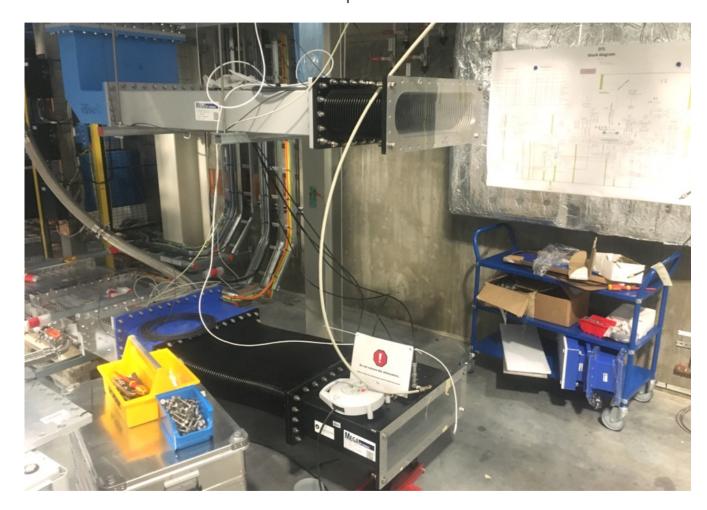
- We have 10+3=13 windows
- 10 windows have been used/tested, and 4 of these have shown arcing, remaining 3 will be tested soon
- Quality issue suspected, TiN coating perhaps too thin, no quality documentation provided by manufacturer
- I would be very interested to hear about J-PARC experience and experience with commercial partners

• Future J-PARC developments, need for ESS to take part in external projects

- ESS technical expertise will be busy completing the ESS linac for the next ~5 years
- After that, new internal or external projects needed for staff retention
- ESS-internal projects will probably not be sufficient, so need for new collaborations

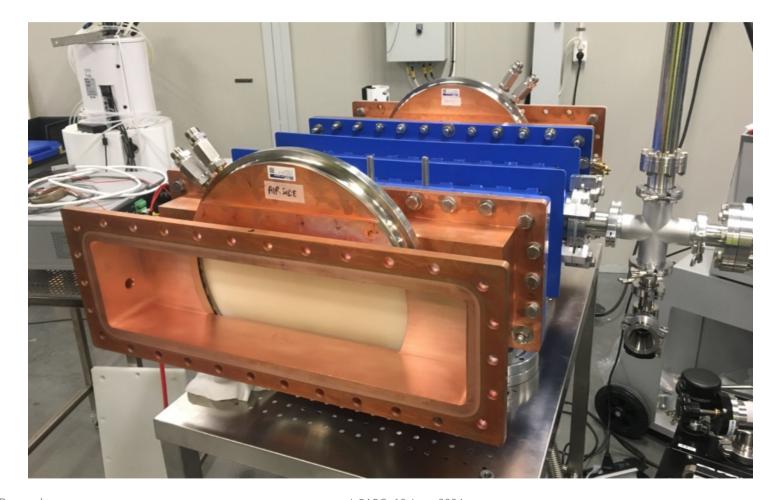
DTL window test setup





DTL windows with test box







The End