Contribution ID: **12** Type: **oral**

Reliability and Availability improvement of the Linear IFMIF Prototype Accelerator

Tuesday, 12 November 2019 08:30 (30 minutes)

The International Fusion Materials Irradiation Facility (IFMIF) aims to provide an accelerator-based D-Li source to produce high-energy neutrons at sufficient intensity for DEMO materials characterization. As part of the Broader Approach (BA) agreement between Japan and EURATOM, the IFMIF/EVEDA project has the mission to work on the engineering design of IFMIF and to validate the main technological challenges, which among a wide diversity of hardware includes a 125mA continuous wave (CW) deuteron accelerator up to 9 MeV mainly designed and manufactured in Europe.

The Linear IFMIF Prototype Accelerator (LIPAc) under installation and commissioning at Rokkasho Fusion Institute (Japan) entered in its second commissioning phase with the objectives to validate the design of the RFQ, MEBT with its bunching cavities, Diagnostics and the RF System.

Since the beam commissioning of the LIPAc started in June 2018, the machine has gained in reliability and availability. The aim of this presentation is to show the different necessary steps of the continuous improvement such as the evolution of the organization and the implementation of the operational and maintenance procedures, which enable us to reach successfully our project milestone.

Summary

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Session Classification: Optimising Availability