SRF2025 TOKYO

22ND INTERNATIONAL CONFERENCE ON RF SUPERCONDUCTIVITY

September 21-26, 2025

Contribution ID: **296** Contribution code: **MOP67** Type: **Poster Presentation**

Coupler installations on cavities at CEA followed by high power test in horizontal cryostat at Fermilab prior to the assembly of the PIP-II LB650 pre-production cryomodule

Monday 22 September 2025 14:30 (3 hours)

The Proton Improvement Plan II (PIP-II) that will be installed at Fermilab is the first U.S. accelerator project that will have significant contributions from international partners. CEA joined the international collaboration in 2018 and will deliver 10 low-beta cryomodules as In-Kind Contributions to the PIP-II project, with cavities supplied by LASA-INFN (Italy) and VECC-DAE (India), and power couplers and tuning systems supplied by Fermilab. Before the start of the assembly of the LB650 preproduction cryomodule in the second half of 2025, the project decided to proceed with coupler installations on cavities at CEA followed by high power test in horizontal cryostat at Fermilab in order to validate the assembly process and infrastructure. This paper will present the results, including the one of a power coupler installed on a cavity using a robot.

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Yes

Footnotes

Funding Agency

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Session Classification: Monday Poster Session

Track Classification: MC4: SRF Technologies