



Contribution ID: 2174 Contribution code: TUPL128

Type: **Poster Presentation**

Construction, assembly and measurements of the SPES RFQ

Tuesday, 9 May 2023 16:30 (2 hours)

The SPES RFQ is designed in order to accelerate beams in CW with A/q ratios from 3 to 7 from the Charge Breeder through the MRMS and the selection and injection lines up to the MEBT (Medium Energy Beam Transport). The RFQ is composed of 6 modules about 1.2 m long each, made of a Stainless Steel Tank and four OFE Copper Electrodes. A copper layer is plated on the tank inner surface and a spring joint between tank and electrode is used in order to seal the RF. In this article, the main results related to the the module assembly and related RF and mechanical measurements are shown.

Funding Agency

Footnotes

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Yes

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Session Classification: Tuesday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A08: Linear Accelerators