5th Slow Extraction Workshop at MedAustron in Wiener Neustadt

Contribution ID: 59

Type: Oral presentation

## **CNAO septum ESE2 development**

Tuesday, 13 February 2024 17:30 (20 minutes)

In 2008, an electrostatic septum was built to a CERN design in industry for the slow extraction in CNAO's medical accelerator in Pavia. Shortly after it's installation, several shortcomings revealed themselves, such as limited orbiting beam acceptance and difficulties to operate the displacement system remotely.

In 2020 a collaboration was launched between CERN and CNAO to design a version of the electrostatic extraction septum which mitigates the shortcomings, taking advantage of the latest developments in the field, and upgrade the device to make it suitable for future operational parameters.

This presentation will highlight the innovations implemented and summarise the results of the initial laboratory tests.

Primary author: BORBURGH, Jan (CERN)

**Co-authors:** Mr PROST, Antoine (CERN); BALHAN, Bruno (CERN); MARTIN, Christoph (CERN); VENCHI, Giuseppe (CNAO); LANZAVECCHIA, Lorenzo (CNAO); JORAT, Louise (CERN); FALBO, Luciano (CNAO); RO-CHOUSE, M. (CERN); VAN TRAPPEN, Pieter (CERN); BARLOW, Roger Andrew (CERN); FOGLIO, Stefano (CNAO)

Presenter: BORBURGH, Jan (CERN)

Session Classification: Septa Development