



Contribution ID: 1943 Contribution code: TUPA172

Type: **Poster Presentation**

## SARAF beam commissioning results: injector, MEBT

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

IAEC/SNRC (Israel) is constructing an accelerator facility, SARAF, for neutron production. It is based on a linac accelerating 5 mA CW deuteron and proton beam up to 40 MeV. As a first phase, IAEC constructed and operated a linac (SARAF Phase I), from which remains an ECR ion source, a Low-Energy Beam Transport (LEBT) line and a 4-rod RFQ. Since 2015, IAEC and CEA (France) are collaborating in the second phase, consisting in manufacturing of the linac. The injector control-system has been recently updated and the Medium Energy Beam Transport (MEBT) line has been installed and integrated to the infrastructure. It has been fully commissioned during the first semester of 2023 for proton and deuteron beams. This paper presents the results of the integration, tests and commissioning of the injector and MEBT.

### Funding Agency

### Footnotes

### I have read and accept the Privacy Policy Statement

Yes

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**Session Classification:** Tuesday Poster Session

**Track Classification:** MC4: Hadron Accelerators: MC4.A08: Linear Accelerators