

26th National Symposium on Cryogenics and Superconductivity

Contribution ID : 133

Invited Talk- IT: PRESENT STATUS OF SUPERCONDUCTING ELECTRON LINAC AT VECC

Friday 24 Feb 2017 at 10:45 (00h30')

Content :

VECC is constructing a 50 MeV, 2 mA (cw) superconducting electron linear accelerator (e-Linac) for the upcoming ANURIB (Advanced National Facility of Unstable and Rare Isotope Beams) project. Initially the Injector comprising a 300 kV dc thermionic electron gun, low energy beam transport (LEBT) line and an injector cryo-module (ICM) that houses one 9-cell beta=1, 1.3 GHz niobium elliptical cavity is being developed in collaboration with TRIUMF laboratory in Canada. The ICM has been built and tested at TRIUMF as a part of the collaboration whereas the front-end of the injector is being built indigenously at VECC. The present status of the e-Linac will be presented.

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