

Colloquium

20 years of Superconducting LINAC at TIFR and Engineer's Day

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The first accelerator installed at TIFR, in the late '50s, was the 1MV Cockroft Walton, more popularly known as the Cascade Generator. The microwave engineering group at TIFR (now SAMEER, under the Department of Electronics), had also ventured into radiation therapy and in the '70s into developing e-LINACs for medical & industrial applications. Driven by growing interest and the trends in heavy ion accelerator based Nuclear Physics, the joint BARC-TIFR project was initiated to set up the Pelletron facility, in the '80s. The facility was further augmented with the superconducting LINAC, designed and built indigenously, also as a joint BARC-TIFR project. The superconducting LINAC, a crucial sub system of the Pelletron LINAC facility (PLF), has completed 20 years of very successful operations. This talk will outline some of the major milestones in the development of LINAC and highlight some of the critical technologies developed during the course of implementing the LINAC project. This major development was the first of its kind in the country and is relevant to future upcoming national projects.

Monday, Oct 3rd 2022

2:30 PM (Tea/Coffee at 2:15 PM)

Auditorium, TIFR-H