

Indian Institutions and Fermilab Collaboration: Development of High Intensity Proton Accelerator in USA and India

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Abstract

The proposed next step in accelerators at Fermilab and at Indian DAE laboratory is to build a High Intensity Proton Accelerator (HIPA) using Superconducting Radio Frequency (SRF) technology. Indian Institutions and Fermilab are collaborating on SRF technology Research, Design and Development (RD&D) that could lead to the construction of HIPA in respective countries. This paper would discuss the present status of this collaborative RD&D and future outlook.