
PROPOSED PROTON ACCELERATOR FACILITY IN FRAME OF TURKISH ACCELERATOR CENTER PROJECT

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Turkish Accelerator Center (TAC) Proton Accelerator Facility (PAF) is planning to build as a part of Turkish Accelerator Centre based on advanced proton-accelerator technology, pulsed neutron-scattering technology, and related programs including proton applications as well as medical therapy and accelerator-driven sub-critical reactor (ADS) applications to serve Turkey's needs in scientific research and technology. TAC – PAF is planned to supply a proton beam with the beam power of 1 MW at a final energy of 2 GeV. The construction of 3 MeV test stand and 100 MeV facility will be initial phase of Proton Accelerator Facility project. TAC Proton Accelerator Facility will provide a multidisciplinary platform for scientific research and applications by national institutions, universities, and industries. In this study, general structure and main parameters of proposed TAC-PAF are explained.