

Potential future proton beam performance for HIE-ISOLDE, n_TOF phase 2 and EURISOL at CERN

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After analysis by the HIP working group [CERN-AB-2004-022], the number of protons that the existing accelerators can deliver after the year 2005 has been found to be insufficient for the needs of the LHC and the present generation of approved experiments. In the longer term (beyond ~2010), the definition of the needs depends upon the LHC upgrade and the physics to be addressed.

Upgrades have been proposed and the situation for the experimental programme concerning the INTC will be described. Starting from the performance of the existing accelerators, the benefits of reducing the basic period to 900 ms and of building Linac4 will be quantified. The potential of a Superconducting Proton Linac (SPL) for addressing the needs of a "EURISOL-type" facility will be detailed.

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