

The primary beams to be provided in 2024 will be Ne-20 and Ar-40 accelerated by the superconducting linac SCL3 at the energies of about 20 MeV/nucleon or less. The nominal beam intensity is expected to be approximately 1.5 pA (particle nano-Ampere). The specific details for the Ar-40 beam are outlined in the tables below.

The primary beam information :

Energy	$A/q$	Macro pulse width	Repetition	Duty factor	Attenuation factor
15 – 20 MeV/u	5	10 msec	10 Hz	10%	$10^{-2} - 10^{-7}$

The expected beam intensity available in 2024:

Attenuation factor	Peak intensity	Average intensity
$10^{-2}$	15.0 pA	1.5 pA
$10^{-4}$	$37.5 \times 10^{-2}$ pA	$3.75 \times 10^{-2}$ pA
$10^{-5}$	$37.5 \times 10^{-3}$ pA	$3.75 \times 10^{-3}$ pA
$10^{-6}$	$37.5 \times 10^{-4}$ pA	$3.75 \times 10^{-4}$ pA
$10^{-7}$	$37.5 \times 10^{-5}$ pA	$3.75 \times 10^{-5}$ pA