WP6, Losses around nozzle

J. Pasternak, 05/12/2023

Beam, nozzle transmission=66.4%

- at the end-station: 15 MeV, 10⁹ protons per bunch, 24 mW at 10 Hz;
- at the end-stations (100% transmission): 137.4 MeV, 10⁹ protons per bunch,
 220 mW at 10 Hz;
- at the exit of the target: full spectrum, 8.9x10¹⁰ protons per bunch, 1300 mW at 10 Hz;
- passing nozzle entrance (no SC): full spectrum, 5.7x10¹⁰ protons per bunch, 1000 mW at 10 Hz;
- at the exit of the nozzle (no SC): full spectrum, 4.0x10¹⁰ protons per bunch, 750 mW at 10 Hz;
- Nozzle loss: 11W/m (average over 5cm)