

Recent Results of the J-PARC Linac Beam Commissioning

Wednesday, November 13, 2024 2:10 PM (30 minutes)

The Japan Proton Accelerator Research Complex (J-PARC) linac has been operated with a design peak current of 50 mA since 2018, and several test operations have been performed at a higher peak current of 60 mA. Furthermore, an even higher beam current is being investigated for future projects at J-PARC. To achieve such high beam currents, it is essential to understand beam dynamics and minimize beam loss: minimizing beam extinction when generating intermediate beam pulses for injection into the downstream ring accelerator, and optimizing the lattice to control intra-beam stripping. In this talk, we present recent results from the beam commissioning in the J-PARC linac.

Paper submission Plan

No

Best Presentation

No

Contribution track

ICABU WG2. Beam Physics, Diagnostics & Novel Techniques

Primary author: Dr OTANI, Masashi

Presenter: Dr OTANI, Masashi

Session Classification: Plenary Talk

Track Classification: ICABU: ICABU WG2. Beam Physics, Diagnostics & Novel Techniques