

Contribution ID: 120

Type: Poster

Waveform Pattern Alignment for Hadron Beam Diagnostics

Saturday, 27 June 2026 15:00 (2 hours)

We present two recently patented methods for estimating hadron beam energy and energy spread. The measurement data supporting these methods were acquired at The Henryk Niewodniczanski Institute of Nuclear Physics Polish Academy of Science in Krakow. The collected datasets from C-230 at Cyclotron Center Bronowice (CCB) and cyclotron AIC-144 demonstrate the practical effectiveness of the diagnostics in real-time monitoring of hadron therapy beams.

Collaboration

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Session Classification: Poster session