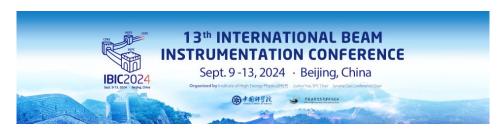
IBIC2024 - 13th International Beam Instrumentation Conference



Contribution ID: 92 Contribution code: WEP06

Type: Poster Presentation

Design and test of an ionization profile monitor at the 80 MeV linac in CSNS

Wednesday, 11 September 2024 14:20 (1h 30m)

The beam transverse profile is very essential in the beam diagnostics of a high intensity proton accelerator. A Residual Gas Ionization Profile Monitor (IPM) has been developed and implemented as a non-destructive diagnostic tool at the LRBT of CSNS. The design specifics of the IPM and presents initial measurements conducted in ion collecting mode are discussed in this paper. Big challenges arose during the initial experimental period, especially the honey comb. A series of planned experiments are outlined to address these challenges in future IPM developments.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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Presenter: LIU, Mengyu (Chinese Academy of Sciences)Session Classification: WEP: Wednesday Poster Session

Track Classification: MC4: Transverse Profile and Emittance Monitors