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Performance of Titanium, Tungsten, and Carbon as Beam Profile Monitor Materials

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This paper investigates the signal characteristics of Titanium, Tungsten, and Carbon materials used in a secondary electron emission grid setup at CERN's North Area. Periodic scans were conducted to reconstruct beam profiles and assess the performance of these materials, configured as wires and bands, under slow-extracted 400 GeV protons. The study aims to inform the design and optimization of new secondary electron emission monitor systems for the NA consolidation project and future installations.

Footnotes

Funding Agency

I have read and accept the Conference Policies

Yes

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