



Contribution ID: 1266 Contribution code: TUPC25

Type: **Poster Presentation**

Enhancing beam current in compact cyclotrons for diverse applications

Tuesday, 21 May 2024 16:00 (2 hours)

Compact cyclotrons, with their ability to deliver high-intensity beams, hold immense potential for advancements in radioisotope production, cancer therapy, and materials research. However, achieving this potential has been limited by inherent challenges and technological constraints. This work presents a comprehensive approach to boosting beam current in compact cyclotrons, paving the way for unlocking their full potential. By combining innovative strategies in axial injection optimization, beam loss mitigation, and novel beam extraction technologies, significant increases in beam intensity can be achieved.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Asia

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Session Classification: Tuesday Poster Session

Track Classification: MC1: Colliders and other Particle and Nuclear and Physics Accelerators: MC1.A13 Cyclotrons