



Contribution ID: 702 Contribution code: WEPG88

Type: **Poster Presentation**

Design of a constant-gradient backward-traveling-wave accelerating structure for irradiation application

Wednesday, 22 May 2024 16:00 (2 hours)

We have presented a novel design of a constant-gradient backward-wave accelerating structure. This structure employs a tapered group velocity, enhancing the efficiency of the accelerating structure. This accelerating tube will be integrated into the system of high-power irradiation accelerators. The paper provides a detailed overview of the design process and parameters involved.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Asia

Primary author: YU, Hongbo (Tsinghua University in Beijing)

Co-authors: SHI, Jiaru (Tsinghua University in Beijing); ZHA, Hao (Tsinghua University in Beijing); CHEN, Huaibi (Tsinghua University in Beijing)

Presenter: YU, Hongbo (Tsinghua University in Beijing)

Session Classification: Wednesday Poster Session

Track Classification: MC6: Beam Instrumentation, Controls, Feedback, and Operational Aspects: MC6.T03 Beam Diagnostics and Instrumentation