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Design, fabrication and verification of a 3MeV S-band medical linear accelerator

Thursday, 11 May 2023 16:30 (2 hours)

ZAP-X is an innovative radiosurgery platform that is self-shielded, using gyroscopic motion to allow precision neurosurgical treatment. It requires a compact linac with lower than typical energy for medical applications. A 3 MeV S-band linac is designed and fabricated for this purpose. Thorough, clinical style testing was performed to verify the performance. The characteristics of photon beam, which is generated by the linac, are compared with the design goal, as well as Monte Carlo simulations.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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