



Contribution ID: 62

Type: **Poster**

Field Emission for Medical Imaging

Tuesday, 20 September 2022 16:40 (10 minutes)

In a world with a fast-growing and rapidly aging population, where availability and accuracy of diagnosis is key to early detection and treatment of disease and injury, the development of enhanced medical imaging techniques will improve the wellbeing of unwell members of society. The unique features of field emitters can be exploited to develop portable systems for 3D X-ray imaging, that will combine the superior clinical diagnose of 3D with the lower running costs and radiation dose similar to traditional 2D radiography. My poster will showcase main engineering ideas hind this technology, the challenges that prevent its commercialisation and the ongoing research we are undertaking to overcome them.

Topic

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Session Classification: Poster Session

Track Classification: Field emission