

Smart*Light: Current Activities and Future Concepts

Monday, 19 April 2021 11:15 (30 minutes)

Inverse Compton sources are becoming a popular concept as the future of lab-based x-ray sources. Smart-Light is one such facility, currently under commissioning at TU/e, which is based on high gradient X-band technology originally designed for the Compact Linear Collider (CLIC). Here we present an overview of the high-power RF system including the newly arrived 50-cell accelerator. To conclude, the presentation will introduce a concept study of a high gradient TW RF photogun which could replace the injector on Smart*Light to ultimately provide a significant boost to the X-ray flux.

Summary

Presenter: LUCAS, Thomas

Session Classification: Session 1