

International Workshop on Breakdown Science and High Gradient Technology (HG2021)

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Smart*Light: Current Activities and Future Concepts

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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

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Session Classification: Session 1