Contribution ID: **124**   Type: **Speed talk**

Bayesian optimization of simulated THz radiation at FLUTE

Friday 9 September 2022 10:23 (3 minutes)

The linac-based test facility FLUTE (Ferninfrarot Linac Und Test Experiment) at KIT will be used to study novel accelerator technology and provide intense THz pulses. In this paper, we present start-to-end simulation studies of FLUTE with different bunch charges. We employ a parallel Bayesian optimization algorithm for different bunch charges of FLUTE to find optimized accelerator settings for the generation of intense THz radiation.

Summary

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Session Classification: Session 4: Beam Dynamics

Track Classification: ST - Beam dynamics