



Contribution ID: 56

Type: **not specified**

BDS Design Challenges with Short-Bunch LC Configurations

Thursday 22 October 2020 07:00 (25 minutes)

Ideas are being formulated, worldwide, for electron colliders which require much shorter bunch lengths than previously considered in the accelerator community ($<5\mu\text{m}$ rms). These configurations are incompatible with existing BDS designs. I show short-bunch parameters being proposed and discuss challenges posed to the BDS design.

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Session Classification: Accelerator Parallel Session