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## Measurements of the transverse emittance for 200 pC bunch charge at the ELBE SRF Gun

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Radio-frequency (RF) guns are essential components of accelerator-based light sources. The superconducting continuous-wave RF (SRF) gun at ELBE, operated by Helmholtz-Zentrum Dresden-Rossendorf (HZDR), can drive multiple beamlines, including the THz beamline TELBE. TELBE is typically operated with a 200 pC bunch charge beam. The transverse emittance of the resulting beam is measured using a single-slit scan in a drift section following the gun. This poster presents the emittance measurement setup used at ELBE and shows results for the projected emittance measurements at a 200 pC bunch charge.

### Summary

**Primary authors:** NIEMCZYK, Raffael (Helmholtz-Zentrum Dresden-Rossendorf); ARNOLD, André (HZDR); HALLILIN-GAIAH, Gowrishankar Thalagavadi; Dr LEHNERT, Ulf (Helmholtz-Center Dresden-Rossendorf); MA, Shuai (Helmholtz-Zentrum Dresden Rossendorf); RYZHOV, Anton (Helmoltz-Zentrum Dresden-Rossendorf); STEIN, Louis; TEICHERT, Jochen (HZDR); XIANG, Rong (HZDR)

**Presenter:** NIEMCZYK, Raffael (Helmholtz-Zentrum Dresden-Rossendorf)

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