

High Gradient Research Activities at SSRF/SARI

Monday, 19 April 2021 14:00 (30 minutes)

Soft X-ray FEL test facility (SXFEL-TF) at SSRF/SARI has been tested and accepted by Chinese government last year, which is based on the C-band high gradient linac. This talk will introduce details of the C-band high gradient technology at SSRF/SARI, and meanwhile the current status of C-band linac upgrading for SXFEL user facility is also presented. Considering the future SXFEL development, two types of C-band photocathode gun are under development at SSRF, including a 3.6-cell NC C-band photocathode gun, and a 2.6-cell cryogenic C-band photocathode gun. Both types have been completed with fabrication and low power RF test, in particular the 3.6-cell gun has been tested by high power, already reaching 180 MV/m higher than the target of 150 MV/m.

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Session Classification: Session 1