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## Measurement, tuning and test for the two-mode TDS

*Wednesday, 22 May 2024 16:00 (2 hours)*

SSRF/SXFEL has developed the advanced transverse deflecting structure TTDS (two-mode transverse deflecting structure) to perform variable polarization based on the design of a dual-mode RF structure. The 15-cell prototype of the TTDS was fabricated at SSRF/SXFEL. Perturbing object measurement was also performed at SSRF/SXFEL, and a new method for tuning two modes simultaneously were designed and applied. The low power test was performed and all the results are summarized in this paper.

### Footnotes

### Funding Agency

### Paper preparation format

LaTeX

### Region represented

Asia

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