IPAC'23 - 14th International Particle Accelerator Conference



Contribution ID: 2001 Contribution code: WEPA135

Type: Poster Presentation

## Development of an S-band accelerating structure for Hefei Advanced Light Source facility

Wednesday, 10 May 2023 16:30 (2 hours)

The injector of Hefei Advanced Light source Facility (HALF) will choose the full energy injection method with beam energy up to 2.2 GeV by a LINAC, which will contain 40 S-band normal conducting traveling wave tubes. Quasi-symmetric single-feed racetrack couplers were used in design of TW tube utilized for reduction the field asymmetry inside the coupler cavity. The design and test result of prototype tube are discribed in this paper.

## **Funding Agency**

## Footnotes

## I have read and accept the Privacy Policy Statement

Yes

**Primary authors:** WU, Fangfang (University of Science and Technology of China); PANG, Jian (University of Science and Technology of China)

**Co-authors:** ZHANG, Shancai (University of Science and Technology of China); WEI, Yelong (University of Science and Technology of China)

Presenter: WU, Fangfang (University of Science and Technology of China)

Session Classification: Wednesday Poster Session

**Track Classification:** MC7: Accelerator Technology and Sustainability: MC7.T06: Room Temperature RF