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

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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 described in this paper.

### Funding Agency

### Footnotes

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Yes

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