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8.53 Development of O mode multichannel correlation reflectometry on EAST tokamak

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In order to effectively carry out the research of Plasma turbulence，a multichannel correlation reflectometry has been developed on EAST tokamak , which working in the frequency range of (20GHz-60GHz) and with the polarization of ordinary mode. The system can probe eight different radial locations simultaneously by launching eight fixed frequencies (20.4GHz,24.8GHz,33GHz,40GHz 42.5GHz,48GHz,52.6GHz, 57.2GHz) and also two different poloidal position simultaneously through two poloidal separated receive antenna. The set up enables the measurement of density fluctuation cover the area from pedestal to core plasma in the routine plasma operation on EAST. In this article, the hardware design and the laboratory test and also the preliminary experimental results on the EAST will be presented .

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