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14.14 Design of combined optical system of ECEI and MIR on the EAST

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Microwave imaging reflectometry(MIR) system is an advanced imaging system measuring plasma density fluctuations which has already been built and tested. And it will be installed on EAST tokamak. Also the electron cyclotron radiation imaging(ECEI) system has been installed on EAST providing temperature fluctuation information. By combining MIR and ECEI together, temperature and density fluctuations of the same region can be measured simultaneously, which is very meaningful for understanding the physical mechanism of plasma. Since 2015, EAST ECEI system has been moved to F port on EAST, and EAST MIR system will also be installed on the same port in 2018. A new combined optical system for MIR and ECEI has been designed and tested, which can provide adjustable zoom and focus for both ECEI and MIR, also with adjustable FCA and incident angle for MIR. The details of the optics design and characteristics will be given.

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