

HTPD 2018



Contribution ID : 434

Type : not specified

6.55 Table benchmark and simulation test of EAST MIR system

Tuesday, 17 April 2018 10:31 (120)

Microwave imaging reflectometry (MIR) system for EAST tokamak has been constructed with 96 channels (12 poloidal x 8 radial). The illumination beam of MIR has eight independent frequencies which can be flexibly adjusted in W band (75 - 105 GHz). The receiver system has eight antennae aligned in the vertical direction. The integrated electronic systems have been tested. We also set up an artificial simulation system using a radius adjustable rotating plate equipped with metallic grating-like structure to simulate cutoff-layer and the density fluctuation in plasma to benchmark performance of EAST MIR in laboratory. The characteristics of EAST MIR will be given.

Primary author(s) : LIAO, Wang (University of Science and Technology of China)

Co-author(s) : XIE, Jinlin (University of Science and Technology of China); QU, Chengming (University of Science and Technology of China); XU, Xinhang (University of Science and Technology of China); GAO, Feixue (University of Science and Technology of China); KANG, Ning (University of Science and Technology of China); LIU, Xianzi (University of Science and Technology of China); ZHU, Yilun (University of California at Davis); DOMIER, Calvin (University of California at Davis); LUHMAN, Neville (University of California at Davis)

Presenter(s) : LIAO, Wang (University of Science and Technology of China); XIE, Jinlin (University of Science and Technology of China); QU, Chengming (University of Science and Technology of China); XU, Xinhang (University of Science and Technology of China); GAO, Feixue (University of Science and Technology of China); KANG, Ning (University of Science and Technology of China); LIU, Xianzi (University of Science and Technology of China); ZHU, Yilun (University of California at Davis); DOMIER, Calvin (University of California at Davis); LUHMAN, Neville (University of California at Davis)

Session Classification : Session #6, Tuesday Morning Poster Session