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The Research Progress of the J-TEXT Tokamak GE ZHUANG, ZHIJIANG WANG, YONGHUA DING, MING ZHANG, ZHOUJUN YANG, LI GAO, XIAOQING ZHANG, XIWEI HU, YUAN PAN, Huazhong University of Science and Technology, THE J-TEXT TEAM — In 2004, the TEXT-U tokamak was disassembled and shipped to China, and later on settle down in Huazhong University of Science and Technology. The machine was renamed as the Joint TEXT (J-TEXT) tokamak and obtained its first plasma in 2007. The typical J-TEXT Ohmic discharge was performed in the limiter configuration with the main parameters as follows: major radius R=1.05 m, minor radius a=0.27m, toroidal magnetic field B_T=2.2T, plasma current I_p >200kA, line-averaged density $n_e \sim$ 2-3 $\cdot 10_{19}/m^3$, and electron temperature $T_{e0} \sim$ 700eV. Up till now, a few diagnostic systems used to facilitate routine operation and experimental studies were designed and developed. Benefiting from these diagnostic tools, the observation of MHD activities and the statistical analysis of disruption events were done. And measurements of the electrostatic fluctuations in the edge region and conditional analysis of the intermittent burst events near the LCFS were also made as well. The preliminary results will be presented in detail in the meeting.

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