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Oral_17: Overview and Recent Progress of KSTAR Diagnostics

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Diagnostic systems are essential to perform machine operation and physics understanding for magnetic fusion experiments. The 14th experimental campaign from Korea Superconducting Tokamak Advanced Research (KSTAR) device has passed since the first experimental campaign was carried out successfully in 2008. The basic diagnostic systems such as magnetic diagnostics, interferometer, inspection illuminator, visible spectrometer, ECE radiometer and so on have been used for the first plasma experiment in KSTAR. Currently more than 50 diagnostics have been continuously installed including the basic diagnostic systems and advanced imaging diagnostics in KSTAR. In addition, diagnostic systems for burning plasma environments like ITER and DEMO are under development from KSTAR. Overview and progress of diagnostic systems, and activities for new diagnostic system developments for KSTAR will be discussed.

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