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Top view of Low Aspect ratio Torus Experiment (LATE) device. Non-inductive plasma current start-up and ramp-up experiments by 2.45 GHz and 5 GHz magnetron system have been developed. Radial magnetic perturbation (MP) coils are installed in order to investigate the effect of MPs on fast electrons. The effect of weak MPs on energetic trapped electrons has an important role in improving EC-driven plasma discharges. (Fumitake WATANABE et al., Plasma and Fusion Research Vol. 7, 1202005 (2012) http://www.jspor.jp/PFR/)

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