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The inboard vacuum vessel of the TST-2 spherical tokamak is quite thin, and we can apply AC (or RF) loop voltage with frequencies up to a few tens kHz. The central solenoid is connected to a bipolar switching power supply to test the potential of the small flux swing AC loop voltage operation. It was found that the operation can be used for pre-ionization and that it may be used for DC current drive. (Akira EJIRI *et al.*, Plasma and Fusion Research Vol. 11, 1202004 (2015) <http://www.jspf.or.jp/PFR/>)



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