

ROTATION OF PLASMA LAYERS  
WITH VARIOUS DENSITIES  
IN CROSSED  $\mathbf{E} \times \mathbf{B}$  FIELDS

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S u m m a r y

The rotational velocity of plasma layers with various densities in a pulsed reflex-discharge plasma is studied with the use of the two-frequency microwave fluctuation reflectometry. The difference between the angular rotational velocities of plasma layers with different densities is revealed, and their time dependences are determined. The rotational velocity of plasma layers is found to increase with the magnetic field induction. On the basis of the experimental data obtained, the radial electric field strength in the plasma layers concerned is evaluated.