

MEASUREMENT OF THE AZIMUTHAL
COMPONENT OF THE VELOCITY
OF PROBE FALLING PARTICLES
IN GLOW DISCHARGE IN MAGNETIC FIELD

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S u m m a r y

The azimuthal component of the velocity of falling probe particles in an unstratified glow discharge in a longitudinal magnetic field is measured. We use a discharge tube and solenoids participating in an experiment to observe the rotational motion of the dust structures in strata. The influence of the divergence of magnetic field lines on the anode and cathode ends of the solenoids on the appearance of an azimuthal momentum of dust particles is checked. The dependences of the angular velocity of probe particles on the longitudinal magnetic field are determined.