

# EXPERIMENTS ON PULSE GAS DISCHARGE – INCIDENT SHOCK WAVE INTERACTION

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The effect of gas inhomogeneous region, formed by pulse diffusive gas discharge, on incident shock wave in air has been investigated experimentally. The experiments were performed in a shock tube of square cross-section of Institute of Mechanics of Moscow State University. The incident shock wave ( $M=2$ ,  $p_0=4000$  Pa) interacts with a quasi-spherical plasma formation of electrical gas discharge, where shock propagates from cathode to anode part of discharge. The visualization of resulting shock configuration is performed for different time of gas discharge evolution.