

INVESTIGATION OF THE PROPERTIES
OF EXPLOSIVE PLASMA JETS
AND THEIR INTERACTION
WITH ELECTROMAGNETIC WAVE

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S u m m a r y

We present the results of experimental investigations of explosive plasma jets (PJ) formed in open space. A possibility of the radiation of pulsed electromagnetic signals with PJ is shown, and the conditions for such radiation are studied. The analysis of the experimental results for short and long PJ is given. As the jet propagates in the field of a spiral, a short-time increase of the radiated signal is observed. A linearly parametrical model of the interaction between PJ and the exciting electromagnetic signal is proposed.