

High-speed recording of vacuum arc discharge images optical range

*S. G. Davydov, A. N. Dolgov, M. A. Karpov, A. V. Korneev,
D. V. Nikishin, A. A. Pshenichniy, and R. Kh. Yakubov*

All-Russian Research Institute of Automatics
22 Sushchevskaya str., Moscow, 127055, Russia

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The process of switching a short vacuum gap with an auxiliary discharge over the surface of a dielectric was studied by high-speed recording of images of a discharge plasma radiating in the optical range of the spectrum. On the basis of an analysis of the experimental data, it was suggested that the cathode spot and cathode flame radiation play an important role in the formation of current channel in the discharge.

Keywords: spark discharge, arc discharge, cathode spot.

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