

Experimental study of micropinch plasma dynamics using a forming line

A. N. Dolgov¹, N. A. Klyachin², and D. E. Prokhorovich¹

¹Dukhov Research Institute of Automatics (VNIIA)
22 Sushevskaya st., Moscow, 127055, Russia
E-mail: alnikdolgov@mail.ru

²National Research Nuclear University MEPhI
31 Kashirskoe sh., Moscow, 115409, Russia

Received December 10, 2021

To study the relationship between the plasma dynamics and the electron acceleration process in a micro-pin discharge, a combined current source consisting of a capacitor bank connected in parallel and a variable-length forming line was used. It is possible to change the direction of the flow of "hot" electrons without changing the polarity of the electrodes.

Keywords: micropinch discharge, dependence of the geometry of the sources, soft X-ray radiation, plasma.

DOI: 10.51368/2307-4469-2022-10-3-264-276

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