

Time Resolved Studies of a Pulsed Hollow Cathode Capillary Discharge

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Abstract

Experimental studies on a fast pulsed capillary discharge are presented. The discharge operates in a 0.8 mm inner diameter capillary, at 12 kV applied voltage. On axis discharge initiation is achieved by means of the hollow cathode effect. A short, less than 10 ns, XUV pulse is produced. Preliminary time resolved spectroscopic studies indicate that a hot, fast evolving short duration capillary plasma is produced.