THE RUNAWAY ELECTRON BEAM FORMED IN A DISCHARGE AT ATMOSPHERIC PRESSURE

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A numerical model is proposed which allows one to describe the dynamics of the fast electrons injected from the head of an anode-directed streamer. The model is based on solving numerically equations of motion of electrons. In the context of the model, the number of electrons which can be injected from the surface of a streamer is determined by the number of electrons in the Debye layer.