Груздев В.А. (Полоцкий гос. университет)

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Abstract

We present the design and characteristics of a plasma electron source based on a discharge in crossed *E* × *H* fields, which provides the formation of technological high‐energy beams with a large cross section in steady‐state and pulsed regimes, and consider conditions for excitation of a high‐current anomalous glow discharge forming an emitting plasma in a pulsed regime.