

516

Title: Pseudospark-sourced Micro-sized Electron Beams for High Frequency klystron Applications.

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Abstract: Electron beams of micro sizes have been recently extracted from a pseudospark discharge. A three cavity pseudospark-driven 94 *GHz* klystron has been designed and simulated using the particle-in-cell (PiC) code MAGIC-2D and modeled with CST Microwave Studio. The simulation results to date look promising.

Keywords: Klystron, Pseudospark discharge