

Abstracts

High Peak and Average Power Microwave Source Research at Physics International

D. Price, J. Benford, S. Ashby, N. Cooksey, D. Drury, B. Harteneck, J.S. Levine, L. Schlitt, P. Sincerny, D. Sprehn, L. Thompson and M. Willey. "High Peak and Average Power Microwave Source Research at Physics International." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 229-232.

CLIA (Compact Linear Induction Accelerator) is a 750 kV, 10 kA pulse power generator using magnetic switching to produce 100 ns long pulses at 200 Hz (150 kW average power) for longer than 1 second. An L-band magnetron, an S-band, frequency-agile klystron and an L-band, high perveance klystron have been successfully operated in bursts with peak powers exceeding 1 GW and average powers approaching 10 kW.

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