Status of 7 GHz Pulsed Magnicon Amplifier and **Results***, Achived E.V. KOZYREV, O.A. NEZHEVENKO, A.A. NIKIFOROV, **B.Z. PERSOV.** G.N. OSTREIKO, S.V. SHCHELKUNOFF, G.V. SERDOBINTSEV, V.V. TARNETSKY, V.P. YAKOVLEV, I.A. ZAPRYAGAEV - The report presents experimental results obtained on 7 GHz pusled magnicon amplifier and planes of its future investigations. This magnicon was developed at INP as a prototype of a microwave power source for the next generation of linear colliders. 55 MW output power and efficiency of 56% were the design goals. The tube operates in frequency-doubling mode of the drive signal. At present time the following parameters have been achived: maxumum output power of 46 MW at 1 microsecond pulse duration, efficiency of 49 %, and gain of 62 dB.

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