

**The Fast RF Power Turn-on in the Moscow Meson Factory Linac Cavities, A.I. KVASHA, L.V. KRAVCHUK, Institute For Nuclear Research Of The Ras, Moscow, Russia -** As it had been shown in [1] there are troubles at MMF linac with often RF channels breakdowns and long RF power turn-on transient due to high level of the RF power dissipation in the cavity's walls. To determine the condition of the fast RF power turn-on in detuning cavity after a breakdown analysis of the turn-on transient differential equation is made. The automatic control system with the fast aperiodic RF turn-on transient is considered. It can be used in the second part of the MMF linac, where there are 28 DAW cavities and it takes a lot of time to achieve the required RF power level in all the cavities.

- [1] S.K. Esin et al. "Moscow Meson Factory DTL RF System Upgrade", 1995 Particle Accelerator Conference and international Conference on High Energy Accelerators, May 1-5, 1995, Dallas, Texas.