

SLOWING-DOWN OF TRANSIENT
PROCESSES UPON THE FORMATION
OF THE POWER-SPECTRUM FINE STRUCTURE
OF A MICROWAVE PHONON LASER (PHASER)

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S u m m a r y

The processes of regular and chaotic formations of a fine structure (FS) in the power spectrum of an autonomous phonon laser (phaser) have been investigated. The pronounced slowing-down of transient processes in the course of the FS formation has been observed experimentally, provided the detuning in the magnetic field and the pump frequency. An explanation of the slowing-down observed has been proposed in the framework of the self-organized bottleneck model, which had been developed earlier for distributed excitable systems to emulate the dynamics of lasers of class *B*.