



Pattern Formations and Oscillatory Phenomena: 4. Density Oscillators

Takeshi Kano

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Systems exhibiting spontaneous regular rhythms abound in nature, and several that are characterized by more than two different time scales are known as relaxation oscillators. The density oscillator is an excellent model system for investigating the fundamental mechanisms of relaxation oscillators. It is a system consisting of an inner container, with a thin pipe in its bottom and filled with heavy fluid, inside an outer container filled with light fluid; the fluids alternately exhibit upflow and downflow through the pipe between the two containers. Although the density oscillator is a simple system, its oscillation mechanism is nontrivial and clarifying it is a challenging task. We have recently clarified the mechanism by constructing a simple model on the basis of detailed experiments. In this chapter, we review studies of this topic and introduce relevant work.

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