Reaction-diffusion system as pattern generator and applications to finger print patterns Prof. Izumi Takagi (Universität Tōhoku)

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Patterns caused by reaction-diffusion mechanisms can be observed frequently in natural world. Simple 2x2 systems of reacting and diffusing species have been studied from various aspects including mathematical, physical, chemical, biological and engineering view points.

In this talk I would like to survey some applications of the idea of reactiondiffusion systems to analysis of finger print patterns.