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Title: Robust and Generic Dynamics: A Phenomenon/mechanism Correspondence

If we consider that the mathematical formulation of natural phenomena always involves simplifications of the physical laws, real significance of a model may be accorded only to those properties that are robust under perturbations. In loose terms, robustness means that some main features of a dynamical system are shared by all nearby systems. In the talk, we will explain the structures related to the presence of robust phenomena and the universal mechanisms that lead to lack of robustness. Providing a conceptual framework, the goal is also to show how to provide a generic correspondence phenomenon/mechanism for all dynamical systems.