

Generic dynamics: A phenomenon/mechanism correspondence

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Abstract:

Through geometrical models, perturbation techniques and sometimes analytical approaches, it has been possible to establish a dictionary between "a taxonomy of generic dynamical phenomena" and a list of "simple mechanisms or dynamical configurations" responsible for such phenomena.

In an introductory way, I will try to explain the meaning of such an approach and how it was developed by many researchers within IMPA's nurturing environment.