

Title : **A panorama of the mathematical theory of dynamical systems**

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A dynamical system consists of a phase space together with an evolution law. The goal of the theory is to understand the long term behaviour of the system. The study of stationary regimes is organized around two poles : quasiperiodic behaviour, with a rotation on a circle as paradigmatic model, and chaotic-hyperbolic behaviour, with the doubling map on the circle as paradigmatic model.