

## **CHAOS AND COMPLEXITY**

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A complex system is made up of many parts that are interrelated in a complicated manner. These intricate mutual relations result in the formation of coherent and random structures over a wide range of time and/or length scales. I will argue, following the tradition of the theory of dynamical systems, that these complex structures can be understood in terms of dynamical invariants. I will also argue that the ability of a complex system to access many different states, combined with its sensitivity, offers great flexibility in manipulating the system's dynamics to select a desired behaviour.