

Special Issue

Complexity of Self-Gravitating Systems

Message from the Guest Editor

In the past decades many efforts have been devoted towards a rigorous definition of complexity in different branches of science however in spite of all the work done so far there is not yet a consensus on a precise definition. The reason behind such interest stems from the fact that, at least at an intuitive level, complexity, no matter how we define it, is a physical concept deeply intertwined with fundamental aspects of the system. In other words, we expect that a suitable definition of complexity of the system could allow us to infer relevant conclusions about its behaviour. Therefore it is of utmost relevance to provide a precise definition of an observable quantity which allows to measure such an important property of the system. Thus, when dealing with a situation that intuitively is judged as “complex”, we need to be able to quantify this complexity by defining an observable measuring it. This special issue of *Entropy* is devoted to the discussion on the possible definition of complexity of self-gravitating systems and its applications.

Guest Editor

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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