



School of Nano Science



IPM Condensed Matter &
Statistical Physics Group

Weekly Seminar

Classification the economic entropy index in a macroeconomic model

Invited speaker:

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Abstract:

Economic entropy has been raised in the critical space of the neoclassical economy. In this presentation, taking into account the methodology of pluralism and rejecting the reductionist approach, using econophysics and systems theory, econometric entropy has been studied. In fact, by introducing economic entropy, parts of the costs that the neoclassical economy does not take into account, appears. Therefore, after studying the deep and immersive concept of economic entropy in this research, theoretical connections with different economic sectors are described by the economic entropy index and then to create an indicator for economic entropy and how entropy enters the general economic model. Research method is descriptive analytical. At first, the concept of entropy is introduced and described in the literature of economics and in the following, the analysis of the economic entropy index in a macroeconomic model will be considered. The results of this study show that the economic entropy can be measured in a macroeconomic model were divided in four sections, shock entropy, respiration entropy, sleep entropy, and entropy of waste. Increasing the economic entropy index due to the scarcity of environmental resources, predicts the likelihood of an economic catastrophe. This will not only bring about economic growth faces serious problems, but the environment poses a serious problem as a place of residence.

Key words: Thermodynamics, Economic entropy, Macroeconomics, econophysics.

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