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سمینار هفتگی ماده چگال نرم

Statistical physics of social dynamics*

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In the recent years **statistical physics** plays an important role in interdisciplinary fields. One of the most important areas in this issue is social science. Finding quantitative behavior in the society encourages scientists to modeling the quantitative behavior of society.

In this paper I will initially major this fundamental question of **social dynamic**: "how the interactions between social agents create **order** out of an initial **disordered** situation?" in this regard, I will discuss different aspects of this question and the main concepts and tools like meaning of order and disorder, role of topology, dynamic system approach and agent- based modeling and also review some example such as crowd behavior, formation of hierarchies and dynamic of opinion, culture and language.

* C. Castellano, S. Fortunato, V. Loreto, "Statistical physics of social dynamics", Rev. Mod. Phys. 81, 591–646 and arXiv:0710.3256v2.

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