



Special Issue on Statistical Mechanics

Call for Papers

Statistical Mechanics is a branch of mathematical physics that studies the average behaviour of a mechanical system where the state of the system is uncertain. A common use of statistical mechanics is in explaining the thermodynamic behaviour of large systems. Statistical mechanics also finds use outside equilibrium. An important subbranch known as non-equilibrium statistical mechanics deals with the issue of microscopically modelling the speed of irreversible processes that are driven by imbalances. As one of the hottest topics in physics, **statistical mechanics** are of great attractions to researchers.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **statistical mechanics**. In this special issue, potential topics include, but are not limited to:

- Maxwell-Boltzmann statistics
- Indistinguishable particles
- Bose-Einstein distribution
- Fermi-Dirac distribution
- Statistical mechanics and thermodynamic laws
- Non-equilibrium statistical mechanics
- Statistical thermodynamics
- The applications of statistical mechanics outside thermodynamics

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly note that the “**Special Issue**” under your manuscript title should be specified and the research field “**Special Issue - Statistical Mechanics**” should be selected during your submission.

Also please note the following timetable:

Submission Deadline	January 8th, 2015
Publication Date	March 2015

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Please contact Editorial Assistant at
jmp@scirp.org