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financial time series,  
agent based models,  
systemic risk, market  
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computational social  
science, science of  
science, evolutionary  
game theory, cultural  
and political ...

~~Physica A: Statistical  
Mechanics and its  
Applications ...~~

During the past years,  
*Page 20/35*

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physicists have achieved important results in the field of phase transitions, statistical mechanics, nonlinear dynamics, and disordered systems.

Concepts like power law, scaling, random processes and unpredictable time series are present in these fields, and they are used as interpretation of

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the underlying physics.

~~Statistical Physics in the  
Modeling of Financial  
Markets ...~~

Statistical mechanics,  
one of the pillars of  
modern physics,  
describes how  
macroscopic  
observations are related  
to microscopic  
parameters that fluctuate  
around an average. It

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connects thermodynamic quantities to microscopic behavior, whereas, in classical thermodynamics, the only available option would be to measure and tabulate such quantities for various materials. Statistical mechanics is necessary for the fundamental study of any physical

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system that has many degrees of freedom. The approach

~~Statistical mechanics—  
Wikipedia~~

First term will cover chapters 2 through 10 which will, broadly speaking, include special relativity, statistical physics, and optics. In the winter term the next eight



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chapters (11 through 18)  
will be covered,  
studying elasticity, fluid  
mechanics and  
magneohydrodynamics.

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A general result that  
derives from the  
application of statistical  
physical methods to  
simple evolutionary  
models contradicts a

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basic tenet of the nearly neutral theory of molecular evolution. We therefore briefly review here the history and significance of that basic assumption.

~~The application of statistical physics to evolutionary ...~~

Abstract. We apply methods and concepts of statistical physics to the

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study of science & technology (S&T) systems. Specifically, our research is motivated by two concepts of fundamental importance in modern statistical physics: scaling and universality. We try to identify robust, universal, characteristics of the evolution of S&T

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systems that can provide guidance to forecasting the impact of changes in funding.

~~Application of statistical physics methods and concepts to ...~~

In fact, in most situations, we can forget that the results are statistical at all, and treat them as exact laws of physics. For instance,

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the familiar equation of state of an ideal gas,  $PV = Nk_B T$  (see Section 6.2), is actually a statistical result. In other words, it relates the average pressure, and the average volume, to the average temperature.

~~Thermodynamics and  
Statistical Mechanics~~

Econophysics is a

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heterodox interdisciplinary research field, applying theories and methods originally developed by physicists in order to solve problems in economics, usually those including uncertainty or stochastic processes and nonlinear dynamics. Some of its application to the study of financial markets has

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also been termed  
statistical finance  
referring to its roots in  
statistical physics.

## Methods For

~~Econophysics~~

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There is a close analogy  
between statistical  
thermodynamics and the  
evolution of allele  
frequencies under  
mutation, selection and  
random drift. Wright's

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The Statistical  
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The

formula for the stationary distribution of allele frequencies is analogous to the Boltzmann distribution in statistical physics.

~~On the application of  
statistical physics to  
evolutionary ...~~

The contribution from physics should thus be restricted to qualitative guidelines for the



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mathematical modeling  
of complex social  
realities. Such a  
limitation does not make  
the program less  
ambitious. 2. Real  
space: from physics to  
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present an application of  
statistical physics to  
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