

A Field Guide to Recent Work on the Foundations of Statistical Mechanics.

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Abstract

This is an extensive review of recent work on the foundations of statistical mechanics.

Keywords: Statistical mechanics, Boltzmann, Gibbs, probability, typicality, microcanonical distribution, thermodynamics, second law, recurrence, reversibility, Loschmidt, Zermelo, time reversal, ergodicity, mixing, coarse graining, past hypothesis, reductionism, ensemble, phase average, thermodynamic limit, Khinchin, Interventionism, entropy, Shannon, Jaynes, Albert, Goldstein, Lebowitz.

Subjects: [Specific Sciences: Probability/Statistics](#)
[Specific Sciences: Physics: Classical Physics](#)
[General Issues: Reductionism/Holism](#)
[Specific Sciences: Physics: Statistical Mechanics/Thermodynamics](#)

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