



## Quantum Information

Collection Editor:

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### Message from the Collection Editor

Dear Colleague,

We invite submissions for the section on quantum information, calling attention to two remarkable aspects of this subfield: (i) While driven by practical concerns, it uncovers new foundational questions and principles, and (ii) it provides a conceptual framework that unifies and changes the way we think about other subfields, including those of particular interest to *Entropy*. Such other subfields include pure thermodynamics and statistical mechanics, as well as applications ranging from quantum biology, through correlated many-body systems, to gravity and the black hole information paradox.

Keywords:

entanglement entropy, eigenstate thermalization, quantum phase transitions, topological order, black hole information paradox, the holographic principle, quantum coherent transport, quantum coherence in biological phenomena.

Prof. Dr. Jay Lawrence  
*Section Editor-in-Chief*





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## Editor-in-Chief

### **Prof. Dr. Kevin H. Knuth**

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## Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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