Special Issue

Entropy and Information in the Foundation of Quantum Physics

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Message from the Guest Editor

Dear Colleagues,

Recent ideas regarding the emergent nature of quantum mechanics and the well-known relationship between black hole entropy and quantum thermodynamics, suggest a deep connection between the fundamental laws of physics, information and information loss on different levels. In particular, the entropic approach suggests a new perspective in quantum mechanics’ foundation, especially with regard to the probabilistic nature of quantum variables. These ideas also have an elegant geometric representation in the phase space, they offer a new kind of visualization of quantum phenomena.

Prof. Dr. Ignazio Licata
Guest Editor

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