

Abstract Submitted
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An Introduction to Neutrosophic Probability Applied in Quantum Physics FLORENTIN SMARANDACHE, University of New Mexico, Gallup Campus — In this paper we generalize the *classical probability* and *imprecise probability* to the notion of **neutrosophic probability** in order to be able to model Heisenberg's Uncertainty Principle of a particle's behavior, Schrödinger's Cat Theory, and the state of bosons which do not obey Pauli's Exclusion Principle (in quantum physics). Neutrosophic probability is closely related to neutrosophic logic and neutrosophic set, and etymologically derived from neutrosophy.

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