

Abstract Submitted  
for the TSS09 Meeting of  
The American Physical Society

**Von Mises Probability and Hilbert Space** JAMES ESPINOSA, Texas Woman's University — There are two major theories of probability, one due to von Mises and the other due to Kolmogorov. The first requires the existence of a collective before probabilities can be defined. Its motivation is physical. The second postulates a probability space which is purely mathematical. It makes probability a branch of mathematics. We show that von Mises' theory is more appropriate to application in quantum theory. Kolmogorov's theory can lead to paradoxical results.

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Date submitted: 26 Feb 2009

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