

Applied Physics

August 23-24, 2018 | London, UK



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What is Probability? Bayes and frequentist approaches

Probability is a concept widely used in conversation. We look at various ideas of what probability is, and in particular the Bayesian and Frequentist approaches. Most of the examples used are from everyday life. We also consider how these ideas affect statistical techniques used in analyzing data. This lecture should be accessible to people with little or no experience of statistical analysis.

Speaker Biography

Louis Lyons is an experimental particle physicist working on the CMS experiment at CERN's Large Hadron Collider. His specialty is the use of advanced statistical techniques for analyzing data. He has written two books on this subject, and has numerous published papers. He initiated the PHYSTAT series of workshops on statistical techniques for particle physics, and has lectured at many international Laboratories and Universities around the world.

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