

What is a uniform distribution?

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It is a trick question. As well as the following one: can you show me an outcome from an i.i.d. uniform family? The speaker is not an expert on the topic, but this is neither surprising nor essential for delivering a meaningful lecture. After the fundamental work by Weyl (a century ago), and important progress made in different directions by Kolmogorov, Korobov, Knuth and their respective schools in the meantime, a number of fundamental open questions on the frontier between number theory and probability theory are practically ignored by the stochastic research community. The talk will attempt to give an overview of the topic.

The lecture should be accessible to a broad audience (familiar only with elementary analysis and probability or statistics).