

Statistics and Probability

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Abstract

This course constitutes a brief introduction to probability applications in high energy physics. First the mathematical tools related to the different probability concepts are introduced. The probability distributions which are commonly used in high energy physics and their characteristics are then shown and commented. The central limit theorem and its consequences are analysed. Finally some numerical methods used to produce different kinds of probability distribution are presented.

The full article (17 p.) corresponding to this lecture is written in french and is provided in the proceedings of the book SOS 2008.