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Data Analysis Techniques for High-Energy Physics Experiments

R. K. Bock, H. Grote, D. Notz, M. Regler

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High-energy physics - the science of the fundamental particles nature - has become one of the most complex and demanding disciplines of natural science. The observation of particle interactions involves the analysis of large and intricate data samples. The very high cost of these experiments makes the full and correct use of the information imperative. Successful interpretation of the data requires the application of advanced mathematical algorithms and computer techniques in all stages of the analysis. The necessary and available techniques of all steps of the analysis have been assembled in a single book. All four authors have had many years' involvement with high-energy physics experiments at CERN, DESY and other particle accelerators around the world. They have written this book both as an introduction and to inform the reader on the most advanced techniques of data analysis in this field. It will be of great value to people involved in experimental research in particle physics, including beginning graduates, computer electronic engineers and senior academics.

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