

0__Toc

1. Motivation and Introduction
2. ROOT Basics
 - 2.1 ROOT as calculator
 - 2.2 Learn C++ at the ROOT prompt
 - 2.3 ROOT as function plotter
 - 2.4 Controlling ROOT
 - 2.5 Plotting Measurements
 - 2.6 Histograms in ROOT
 - 2.7 Interactive ROOT
 - 2.8 ROOT Beginners' FAQ
 - 2.8.1 ROOT type declarations for basic data types
 - 2.8.2 Configure ROOT at start-up
 - 2.8.2 ROOT command history
 - 2.8.3 ROOT Global Pointers
3. Root Macros
 - 3.1 General Remarks on ROOT macros
 - – 3.2 A more complete example
 - 3.3 Summary of Visual effects
 - * · 3.3.1 Colours and Graph Markers
 - * 3.3.2 Arrows and Lines
 - 3.3.3 Text
 - 3.4 Interpretation and Compilation
 - * · 3.4.1 Compile a Macro with ACLiC
 - * 3.4.2 Compile a Macro with the Compiler

- 4. Graphs
 - 4.1 Read Graph Points from File
 - 4.2 Polar Graphs
 - 4.3 2D Graphs
 - 4.4 Multiple graphs
- 5. Histograms
 - 5.1 Your First Histogram
 - 5.2 Add and Divide Histograms
 - 5.3 Two-dimensional Histograms
 - 5.4 Multiple histograms
- 6. Functions and Parameter Estimation
 - 6.1 Fitting Functions to Pseudo Data
 - 6.2 Toy Monte Carlo Experiments
- 7. File IO and Parallel Analysis
 - 7.1 Storing ROOT Objects
 - 7.2 N-tuples in ROOT
 - 7.2.1 Storing simple N-tuples
 - 7.2.2 Reading N-tuples
 - 7.2.3 Storing Arbitrary N-tuples
 - 7.2.4 Processing N-tuples Spanning over Several Files
 - 7.2.5 For the advanced user: Processing trees with a selector script
 - 7.2.6 For power-users: Multi-core processing with PROOF lite
 - 7.2.7 Optimisation Regarding N-tuples
- 8. ROOT in Python
 - 8.1 PyROOT
 - 8.1.1 More Python- less C++
 - * 8.1.1.1 Customised Binning
 - 8.2 Custom code: from C++ to Python
- 9. Concluding Remarks
 - 9.1 References