

New ROOT Graphical User Interfaces for fitting

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ROOT, as a scientific data analysis framework, provides extensive capabilities via graphics user interfaces (GUI) for performing interactive analysis and visualize data objects like histograms and graphs. A new interface for fitting has been developed for performing, exploring and comparing fits on data point sets such as histograms, multi-dimensional graphs or trees.

With this new interfaces, users can build interactively the fit model function, set parameter values and constraints and select fit and minimization methods with their options. Functionality for visualizing the fit results is as well provided, with the possibility of drawing residuals or confidence intervals. Furthermore, the new fit panel reacts as a standalone application and it does not prevent users from interacting with other windows. We will describe in great detail the functionality of this user interface, covering as well the new capability provided by the new fitting and minimization tools introduced recently in the ROOT framework.

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Primary authors: GONZALEZ MALINE, David (CERN); MONETA, Lorenzo (CERN)

Co-author: Mrs ANTICHEVA, Ilka (CERN)

Presenter: GONZALEZ MALINE, David (CERN)

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