

ROOT Users' Workshop



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T RooFit

Wednesday, September 12, 2018 12:45 PM (10 minutes)

T RooFit is an extension of the RooFit toolkit, providing a set of classes that are inspired by core ROOT objects (specifically histograms and histogram stacks) but are fully-functional RooFit pdfs or functions. T RooFit's T RooH1D and T RooHStack are fillable and drawable in the same way as a TH1D and THStack, but are simultaneously concrete RooFit PDFs that can be fit to a RooFit dataset. T RooFit's histogram classes also incorporate desirable features such as systematic variation with automatic interpolation. T RooFit provides extensions of some RooFit classes (specifically the RooFitResult and the RooWorkspace), which assist in the creation of new models, as well as inspection of existing ones. In particular, T RooFit's T RooWorkspace is able to interpret and draw workspaces built with the HistFactory tool and other tools that build models that have a similar structure.

This presentation will demonstrate using T RooFit to visualise an existing workspace, run a fit, inspect the fit result (through pull and impact plots) and obtain pre- and post-fit yields and uncertainties. Some examples of using T RooFit to build models will also be given.

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Session Classification: End User Perspective