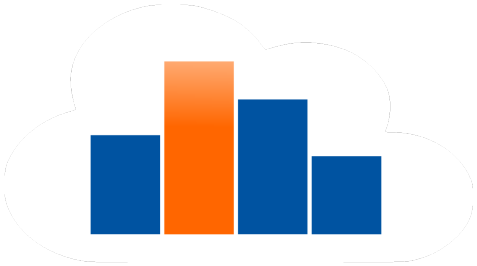

Contribution ID: **19** Type: **not specified**

Interactive Statistics Documentation

Friday, 11 October 2019 15:20 (15 minutes)

High energy physics requires the massive data sets that it does because the quantum randomness of nature is baked into our results. Only with orders of magnitude more data than other disciplines do we achieve any results at all. All this data needs some rather advanced, novel and specific statistical tools.

The statistical methods web page aims to link the high level statistical concepts such as profile likelihoods, subsidiary measurements and non-parametric inference and links them directly with analysis ready hands on instructions for how these methods can be implemented in practice. SWAN handles the hands-on part of the page. Allowing users to see a plot, click a button and investigate the effect of changing parameters and randomising data.

The project hopes to one day work across experimental boundaries providing an in depth interactive, community driven textbook on statistical methods. But this means hosting with permission issues related to single sign on, data storage, duplicating repos between GitHub and gitlab, and limits the availability of this resource only to those with cern lightweight computing accounts.

I'd love to one day make the page truly interactive and available to all but for now the facilities available from swan are incredibly useful to make the CERN statistical word open to all.

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Session Classification: User's use cases