HEP Data Author Instructions

This is a set of instructions for the authors of the pdf in order to have the correct format when submitting the HEPData.

The method uses a python library that takes a set of plots (histograms) from a root file and reads the associated histograms for each plot. For each histogram it uses the hep-data library in order to change the format of the histogram data and its uncertainties from a text to a yaml file (format needed from hep-data to be correctly uploaded).

A simpler explanation could be:

Create a root file with all the plots from your analysis that are included in the pdf.
For example:

root file: TOP-18-013_AllHadronic.root

This file contains N subdirectories:
Each subdirectory is associated with a figure from the paper.
For example one could have:

TOP-18-013_AllHadronic.root
→ /Figure1_pdf/
….
….
….
→ /FigureN_pdf/

Each figure i (i = 1, …N) contains a set of histograms that complete the figure.
An example of this is:

TOP-18-013_AllHadronic.root/
→ /Figure1_pdf/
→/Histogram1_Figure1_pdf
→/Histogram2_Figure1_pdf
→/Histogram3_Figure1_pdf
…
→/HistogramM_Figure1_pdf
….
….
→ /FigureN_pdf/
→/Histogram1_FigureN_pdf
→/Histogram2_FigureN_pdf
→/Histogram3_FigureN_pdf
…
…
→/HistogramM_FigureN_pdf

For each figure the authors must provide a set of comments:
1. Description
2. Location (put the number of the figure)
3. Keywords

If possible send this in a csv file with the following format:
figureName;description;location;keywords;file_location(you can leave this empty)

Also, for each table, a similar description is needed:
1. Histogram Name
2. xAxis
3. yAxis
4. Histogram title
5. Is Independent (1 for all)
6. isBinned (0)
7. Units (for example GeV)

A csv file of the following format would be helpful
histName;xAxis;yAxis;histoTitle;isIndependent;isBinned;Units;

Finally a small mapping of the files would be great (although this can be done via the python library)
For each figure please provide the associated histograms in a csv format of the type:

Figure1;histo1Figure1; histo2Figure1; histo3Figure1; histo4Figure1;