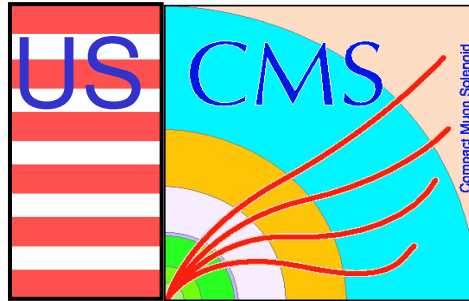


# *The simple user's interface for ROOT tree analysis*



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## *The simple user's interface for ROOT tree analysis*

- **The ROOT tree making code :**
  - SimpleTree.cc from ORCA\_8\_1\_3/src/Workspace
  - Used version makes simple tree with branches as arrays and their sizes, no shared library and custom class is needed
- **The ROOT tree analysis code :**
  - Started from the code antree.C used in the Endcap Muon Beam tests (2003-2004) and CSC tests at FAST sites
  - Simplify (no shared library and custom class needed)
  - Do use ROOT MakeClass to get the branch structure compatible with antree.C



## *The simple user's interface for ROOT tree analysis*

- **The ROOT tree analysis code (cont'd):**
  - The code includes choice of pictures (1D, 2D), their location on the page and # of pages in output Postscript file; also a choice of branches and its limits and bins to be plotted.
  - All this is controlled by input command text file and script
  - The script produces RootFillPict class with method FillPict based on the list of cases in the input command file
  - Standard set of cases (filling 1D and 2D histograms) is available
  - User can include its own case
  - See examples and tar file at [http://www-hep.phys.cmu.edu/cms/CMS\\_SOFTWARE/soft.html](http://www-hep.phys.cmu.edu/cms/CMS_SOFTWARE/soft.html)



# Examples of the single $Pt=100$ GeV muon distributions

