ValidationsTools

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this repository get all the validations tools such as Kolmogorov-Smirnov (KS Tools) or AutoEncoders Tools (AE).

Launching the installation :

- git clone https://github.com/archiron/ValidationsTools ValidationsTools
- cd ValidationsTools
then launch : . installValidationsTools.sh

This install the library (ChiLib), the release file env (cmsrel $Release $Release) and copy the ZEE_Flow/CCA or ZEE_Flow/LLR files (depending of the site you are working on - the CC or the LLR site) onto the $Release/src/Kolmogorov folder.
$Release is the release you want working with.

Launching the ROOT files creation :

From the top of the Tools (i.e. ValidationsTools), then launch :
. createROOTFiles.sh
This script launch the creation of the ROOT files, using the step[1-4].py scripts.
You can use own but they have to be similar to the existing ones (see 4).

⚠️ later create a link to an explanation of the common files used for the ROOT files creation (CommonFiles/path...).

Reducing size :

When ALL ROOT files are created, launch (always from the top folder) :
. reduceROOTSize.sh
this will reduce the size of the ROOT files (typically from 150/200 Mo to 1.5/2 Mo), keeping the name of the file.

Extracting values :

When all the ROOT files are created and reduced, we need to creates 1 file per histo with all the histo values for each ROOT file.
It is the first job of the extractValues[_init].sh scripts.

Annexe : ROOT scripts to modify

Here we are talking about the step[1-4].py scripts.