Documentation on the package

• This page is meant to collect relevant information to run the AliFemto package.

Requirements

• To run AliFemto you need the following:
  1. AliRoot installation
  2. If using data from alien you will need a grid certificate.

Running in your local machine:

1. Create a folder where you will have your AliFemto data stored i.e. myAliFemto.
   1. Copy from $ALICE_ROOT/PWG2/FEMTOSCOPY/macros/ the following files to myAliFemto directory:
      1. AddTaskFemto.C
      2. ConfigFemtoAnalysis.C
      3. runLocal.C.
   2. You also need this macro: CreateESDChain.C
2. The ConfigFemtoAnalysis.C macro allows you to setup the analysis and the cuts.
3. The AddTaskFemto.C macro creates an AliAnalysisTask object. This one does not need to be modified at a basic level, but here you can change the name of output files.
4. The runLocal.C macro starts the analysis.
5. You need to have some .par files in myAliFemto directory:
   1. Go to $ALICE_ROOT and run the following commands to create the par files:
      1. make STEERBase.par
      2. make ESD.par
      3. make AOD.par
      4. make ANALYSIS.par
      5. make ANALYSISalice.par
      6. make PWG2AOD.par
      7. make PWG2femtoscopy.par
      8. make PWG2femtoscopyUser.par
   2. Copy these .par files to myAliFemto directory.
6. Now you are ready to run a local analysis. Run aliroot: aliroot
   'runLocal.C("ESD_LHC08b1.txt",0)'

Running on CAF:

1. Log on to your lxplus account and enable root and alien by:
   1. alien-token-init
   2. source /afs/cern.ch/alice/caf/caf-1xplus.sh -alien v4-17-Release
2. Create a folder for your analysis i.e. myAliFemto.
   1. Copy from $ALICE_ROOT/PWG2/FEMTOSCOPY/macros/ the following files to myAliFemto directory:
      1. AddTaskFemto.C
      2. ConfigFemtoAnalysis.C
      3. runLocal.C.
   2. You also need this macro: CreateESDChain.C
3. Copy the same .par files as in the local analysis.
4. If you want to see the available data sets on CAF, use this macro: ShowDataSetsOnCaF.C
4. Choose a data set to run the analysis on (i.e. /COMMON/COMMON/LHC08c11_10TeV_0.5T).
5. Now you should be ready to run AliFemto: *aliroot
   'runProof.C("/COMMON/COMMON/LHC08c11_10TeV_0.5T.1000000")' *
   ✦ The second argument is the number of events to analyze.

### Output from

1. The default output is a **Femto.ESD.root** file.
2. To view the contents you can use this macro: `ViewFemtoContent.C`
3. If you want to look at the Q invariant correlation function, you could use a macro like this: `HistoQinv.C`

From here you can write your own analysis macros.

-- JorgeMercado - 25-Nov-2009

- **ESD_LHC08b1.txt**: sample ESD list to run a local analysis

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