

(Hadron) PID in simulations

PID parametrizations: <https://github.com/ECCE-EIC/ecce-detectors/tree/master/FastPID>

 dRICH	Update README.md
 hpDIRC	Update README.md
 mRICH	Update README

dRICH parameterisation

The main file is `dua1RICH.h` that contains the definition and implementation of the `dua1RICH_Aeroge1` and `dua1RICH_C2F6` classes. Notice that the aerogel and the C2F6 radiators are implemented in two separate classes, therefore the full dRICH PID parameterisation is split over the two radiators.

Other files are used to define generic interfaces, such a `genericRICH.h` and `genericDetector.h` and are an integral part of this software.

Both `dua1RICH_Aeroge1` and `dua1RICH_C2F6` are by default operated in `RICH mode`. The extension of the operation in `threshold mode` can be achieved by requesting it explicitly with `setThresholdMode(true)`.

A test example can be found in `dRICH.C`.

For details and information about usage, please contact Roberto Preghenella (preghenella@bo.infn.it).

- These functions can be used with 1st campaign data (using momentum and direction of tracks)
- Will be implemented in the output of Fun4All in the 2nd campaign (TBC)

Calorimetry analyses

Improved calorimeter clustering code:

<https://github.com/FriederikeBock/AnalysisSoftwareEIC>

Event Evaluator Afterburner:

<https://github.com/FriederikeBock/AnalysisSoftwareEIC/blob/master/treeAnalysis/treeProcessing.C>

Some documentation will/might appear here:

https://ecce-eic.github.io/tutorials_EventEvaluatorAfterburner.html