# MC data catalogue proposal Roma Tre Team + Giovanni

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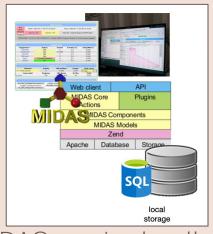


## INTRODUCTION

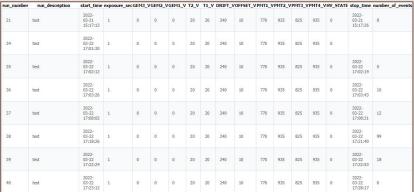
- Today the simulation data is not yet cataloged;
- Neither the relationship between the MC data and its pedestals or Digitized data;
- On one of the Reconstruction Algorithm latest releases a change was made where the code automatically search for the right pedestal run to the analysis.
- In order to stay coherent with the real data analysis a table of content for the simulation data is necessary (and useful).

# Run Catalogue for the REAL DATA

 When the DAQ acquires an entire run it sends all the information to a DB on the Cloud. This DB can be easily access <u>here</u> through a php web page.

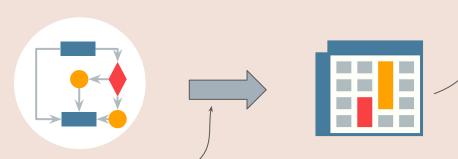






Data table of Simulated Events on the Cloud

#### PROPOSAL: MC data catalog



Simulation Algorithm ( Data table of Simulated Events on the Cloud

Python automatic\* routine that gets all the important information and updates the data table.

\*with the option to not register a simulation in case of test.

Content of the table:

- MC data name -
- All the simulation parameters
- Time of creation
- Description of the data
- Who has produced it (?)
- Any ideas?

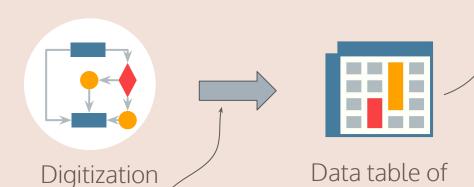
For the run name we suggest an "prefix+automatic increase number"

For example: MC\_00001.ext

### PROPOSAL: Same for the Digitized data catalog

Digitized Runs on

the Cloud



Python automatic\* routine that gets all the important information and updates the data table.

Algorithm

Content of the table:

- Digitized data name
- Source MC data name
- All the simulation parameters
- All the digitization parameters
- Time of creation
- Description of the data
- Who has produced it (?)
- Any ideas?

For the run name a suggestion cloud be: "prefix+automatic increase number"
For example:

MC\_Digitized\_00001.ext

# What we would like to achieve with this proposal?

- Better coherence/synchrony with the Reconstruction algorithm;
- Easier maintenance of the data (storage-wize);
- An always up-to-date catalog of simulated runs;
- PHP page to access the Simulated/Digitized run log (as the Real Data);
- Simplified synchronization of all the groups working with simulated data.

