# Introduction

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# Framework

➡ Development done by Chris

  – implemented several improvements of the Event display

  – started the cleanup of dictionaries, improving the handling of different reconstruction strategies.

➡ Still missing:

  – Time profiling of the code understanding where / if we can significantly gain

  – Providing a class for the general setup of the experiment (beam, energy, etc etc). Such info is needed (e.g. Z_ID algorithms have a tuning that is beam/ particle dependent, e.g. MC simulation) and is currently stored in TAGparGeo

    • Will provide a better handler in the near future.

# Simulation

➡ Currently trying to revive the -exp implementation for Geometry setup. In both the Newgeom and Master branches the -exp flag is enabled but not implemented.

➡ A first attempt was done to revive it, but so far there are issues when running the geometry production from scratch on linux. Currently working on it with Giuseppe to find out the problem and commit the geomaps files and FootGlobal.par files that are needed both in the default and GSI configurations.

– Attention! In several places/macros the flag -exp is not propagated. instead the 'default' files are used. We should implement a mechanism that prevents running against default files and reporting a warning or an error when a file is not found stopping the job execution.

# Reconstruction

➡ A lot of work is ongoing:

– Time calculations: the waveforms analysis has been updated, the ToF and charge calibration are being released

– Z_ID: the algorithms are nearly ready and will be released soon, allowing a guess using the TW info for the Z_ID of the fragment. TW reconstruction strategies are being developed (clustering, understanding background from rescattering, fragmentation inside the bars.) …

– Improvements in the track and vertex reconstruction

– Developments in the CALO implementation

➡ The global reconstruction strategies are being implemented and tested .. today we're going to have an update both on TOE and on the implementation being developed in Bologna (Genfit based)