Latest version: NAIA v1.1.1

Changes, fixes and new features

- Rich:
  - Updated the geometric tests (MR !64, E. Robyn)
- Tof:
  - Change the default computation of TOF beta for MC in `NtpMaker`. Old `GetMCBeta` can be run with a dedicated CLI flag.

Available datasets

```
Al.B1236  B.B1308   Ca.B1236  C.B1308   Fe.B1236  He.B1305   Li.B1305  N.B1236   Ni.B1236  P.B1236    Sc.B1236
Ar.B1236  Be.B1236  C.B1236   Cl.B1236  Fe.B1305  He.B1308   Li.B1306  N.B1304   O.B1236   pos.B1236  Si.B1236
B.B1236   Be.B1304  C.B1239   Cr.B1236  H.B1306   ISS.B1236  Li.B1308  N.B1305   O.B1304   Pr.B1236   Ti.B1236
B.B1304   Be.B1305  C.B1304   D.B1236   H.B1308   K.B1236    Mg.B1236  N.B1306   O.B1305   Pr.B1304   V.B1236
B.B1305   Be.B1306  C.B1305   el.B1236  He.B1236  Li.B1236   Mn.B1236  N.B1308   O.B1306   Pr.B1305
B.B1306   Be.B1308  C.B1306   F.B1236   He.B1304  Li.B1304   Na.B1236  Ne.B1236  O.B1308   S.B1236
```

Available environments

(Due to lxplus permanently switching to AlmaLinux, NAIA v1.1.1 was not compiled for CentOS7)

```
/cvmfs/ams.cern.ch/Offline/amsitaly/public/install/x86_64-el9-gcc12.1/naia/v1.1.1/setenvs/setenv_gcc6.28_el9.sh
```

AlmaLinux 9

lxplus has been permanently switched to AlmaLinux 9 since last summer.

CNAF very recently followed.

We have been testing AlmaLinux for some time (part of v1.1.0 production was run on AlmaLinux nodes at CERN). All should work as before, but please report any issue.

We will keep providing CentOS7 environment script for the time being, but it can only be used from a local installation of NAIA.

`cvmfs` deployment will be done only for AlmaLinux 9.

NAIA v1.2.0 Status

Changes, fixes and new features

- MCTruth:
  - `TrMCHit` now also includes the corresponding G4 track ID (#97, F. Rossi, P. Zuccon)
- RTIInfo:
  - Fixed `TTree` friending issue due to wrong index building (#94)
- Rich:
  - Fixed misnamed variables (Rich charge) (#95, E. Robyn)
  - Fixed `beta = 1` variables not being properly filled (#96)
  - Added information on number of reflected hits (MR !70, E. Robyn)
- TrTrack:
  - All Cluster EDep variables are now computed with the same units (MeV). Doc updated accordingly. (#103)

Changes, fixes and new features

Work In Progress

- MCTruth:
  - Better information on the primary particle with added checkpoints and elastic scattering (P. Zuccon) (requires additional Nskip values in gbatch, any update on this?)

Environment and other changes

For v1.2.0 we will keep using LCG release 104:

```
gcc    12.1
CMake  3.26.2
python 3.9.12
ROOT   6.28/04 (c++17)
XROOTD 5.5.4
```

See here to know more about [LCG releases](https://lcgdocs.web.cern.ch/lcgdocs/lcgreleases/introduction/)

If there is a need to update the environment (*e.g.* some bug in ROOT was fixed in a newer version), please let us know as soon as possible.

Environment and other changes

v1.2.0 production is planned to start right before xmas.

At the moment we are setting up all the job management and production workflow.

After cutting the new release and performing the initial tests production will start with the usual 10k random runs for further checks.