

# LIM, March 13, 2023

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Connected:

Indico: <https://indico.cern.ch/e/1259209>

## Updates in nightlies/devs since the last meeting

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### "Externals"

- [SPI-2314](#) **Cuda 12.1** is added to contrib area.
- [SPI-2298](#) **madgraph-3.4.2** is added with ATLAS patches into nightlies.
- [SPI-2309](#) Python's **ipaddress** module was removed from the stack (exists in Python3)
- [SPI-2287](#) **Alma nightly builds** for x86\_64-el9-gcc11-opt are added to dev3 and dev4.
  - it uses gcc built for centos9 for the moment.

### "Generators"

- [SHERPA] **New version of sherpa 2.2.15** is releases, not requested yet.
  - According to the release notes: "**Version 2.2.15 contains a bug fix for fixed-order NLO results (enabled using QCD\_NLO\_Mode: Fixed\_Order), and we encourage all users to update to this version.**"

## Pending/in progress

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- [SPI-2313](#) Addition of **OpenSearch** python library requested by Centralised Elasticsearch Service team, managing Elasticsearch/OpenSearch clusters.
- [SPI-2301](#) Request for update of **Pyarrow** package.
- [SPI-2302](#) Update of TensorFlow
- [SPI-2308](#) Request to update **Xerces-C**.
- [SPI-2305](#) Update **xrootd to 5.5.3** and clarify what is needed for client installation.
- [SPI-2310](#) **Change of default build configuration of Geant4:**
  - Geant4: without VecGeom
  - Geant4\_vecgeom\_scala: with VecGeom built in scalar mode;
  - Geant4\_vecgeom\_vector: with VecGeom built in vector mode;
  - an opportunity for users for benchmarking.

## Release and layers:

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- [SPI-2289](#) **LCG\_103**
  - Base Layer:
    - aarch64-centos9-gcc11 is available now.
    - clang15 platform are ready but without compiler's rpms yet.

- [SPI-2315](#) mac12arm builds failing.
- LCG\_103cuda:
  - x86\_64-centos7-gcc11-opt
  - x86\_64-centos8-gcc11-opt
  - x86\_64-centos9-gcc11-opt
- LCG\_103swan:
  - x86\_64-centos7-gcc11-opt
- [SPI-2298](#) **LCG\_102b\_ATLAS\_13/14** new ATLAS layer with madgraph-3.4.2 is ready.
- [SPI-2306](#) Layer **LCG\_102b\_ATLAS\_1/2** with Pythia8-309 is in progress. All configurations for x86 platforms are ready, arm's - to be checked.

## items for discussion:

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- Feedback about LCG\_103
- Maintenance day on Sunday?
  - Every day, we (re-)publish so many files on CVMFS that our regular garbage collection jobs are not reaching the actual sweep stage.
  - Suggestion: to have a dedicated day for running gc task.

## Round table

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ATLAS, ALICE, LHCb, ROOT, NA62, SWAN

## Next Meeting: March 27, 2023

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