

Production Preparation

June 23

Logistics

1. What tag / name scheme we should use for this production?

Proposal based on consensus: **2022-07 Concept**, **det1.prop.1**

2. Should the simulation toolkit kept in the current github/gitlab account ? Or should we store them somewhere else?

Consensus: keep Fun4all and DD4Hep in the existing github account

3. Current nightly backup system that is currently functioning. Although it is associated with ECCE/ATHENA, changing requires effort and risk to break them.
Consensus: keep everything that is currently working in the same shape and form.

4. **Output Directory:**

- a. JLab: /work/eic2
- b. BNL:
- c. S3: **Did Jerome created the detector 1 mount location**
- d. xrootd: **David will make the detector 1 mount location soon**

Steps forward

Input file preparation for Fun4all and DD4HEP

- All files will be converted to be compatible with both frameworks

Fun4all

Covered in remaining slides

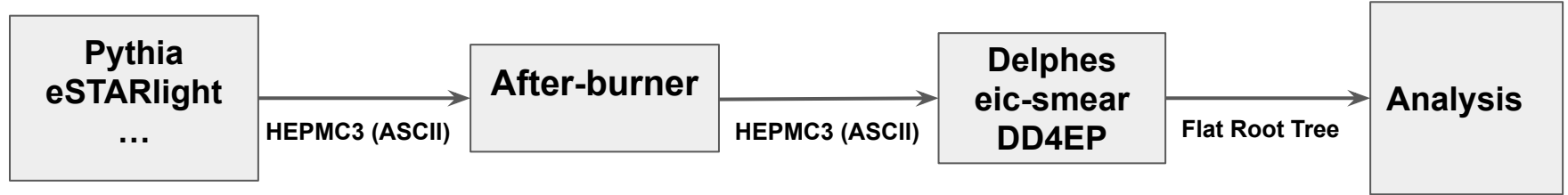
- Production tool kit preparation
- Code and configuration Freeze by Joe (July 29)
- Branch preparation (July 30)

DD4Hep

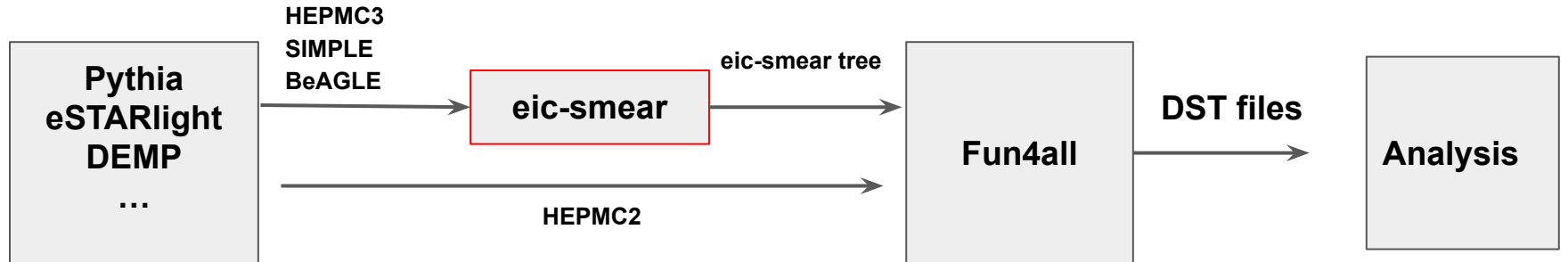
- Babar field map was implemented
- Code and configuration freeze (Wouter please comment on this)
 - tracker readiness for this campaign?

Input files

For DD4HEP

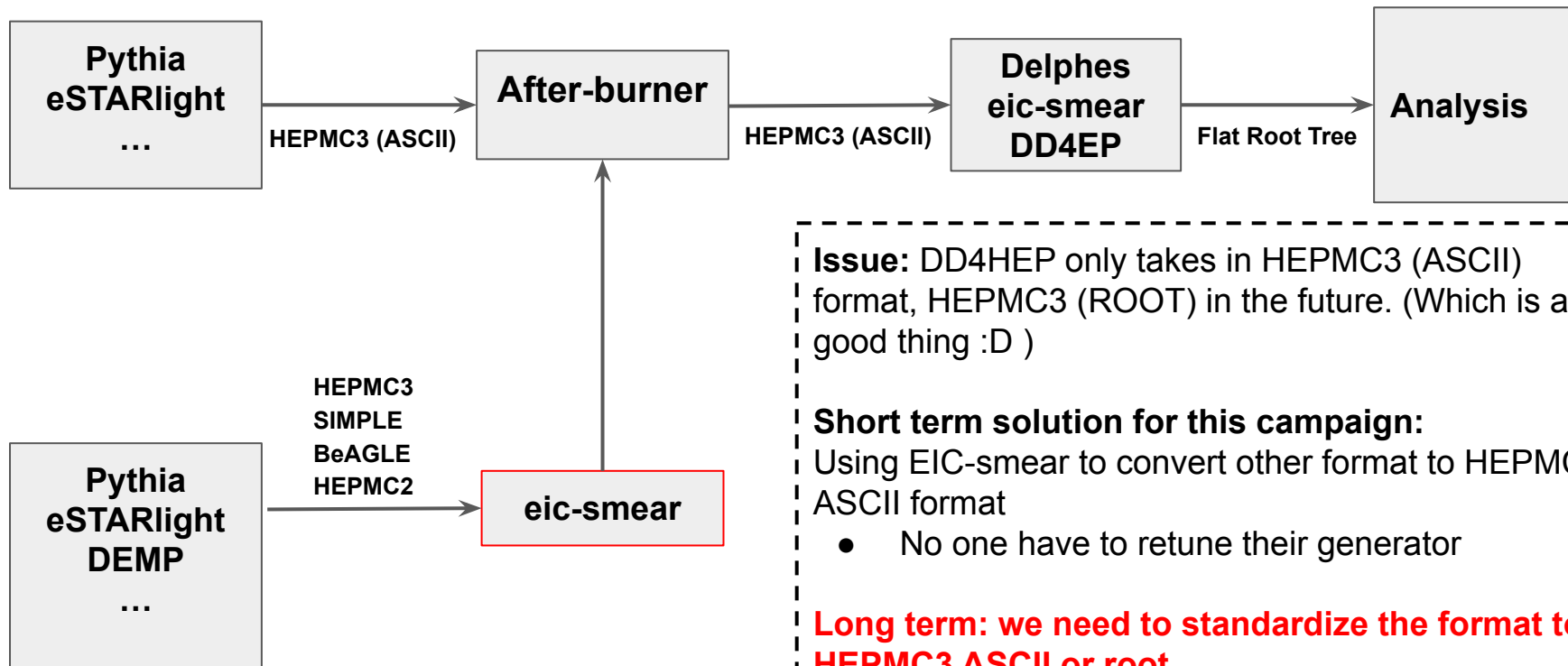


For Fun4All



Issue for DD4HEP and proposed solution

For DD4HEP



Instruction from other formats to HEPMC3

Instruction from other formats to HEPMC3 ASCII: [Yes]

- <https://github.com/eic/eic-smear#creation-of-hepmc-output>

Thanks to Kolja

Instruction from other formats to HEPMC3 ROOT: [Yes]

Input files for 2022-07 Concept

- **Store all input files `xrootd` under `detector_1` detectory:**
 - EIC-smear tree (Fun4all Current Campaign)
 - HEPMC3 ASCII (DD4HEP Current Campaign)
 - HEPMC3 root (future campaign)

- **Where are the data files currently?**
 - SIDIS?
 - HF & Jets
 - Excl, Diff & Tagg?

Job Submission Tool Kits

- Fresh copy of simulation tool kit is now available:
 - location: https://github.com/ECCE-EIC/productions/tree/detector_1

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BNL

JLab

Configuration option file



configurations.py

Updated to prop.7.0 (#47)

4 months ago



configurations.pyc

Bills branch (#25)

8 months ago



setup.sh

Streamline installation and submission and documentation. (#18)

10 months ago

Master script



setupProduction.py

Updated to prop.7.0 (#47)

4 months ago

JLab setup script



setup_eic_JLAB.csh

Bills branch (#25)

8 months ago



submit_diff_tagg.sh

Bills branch (#25)

8 months ago

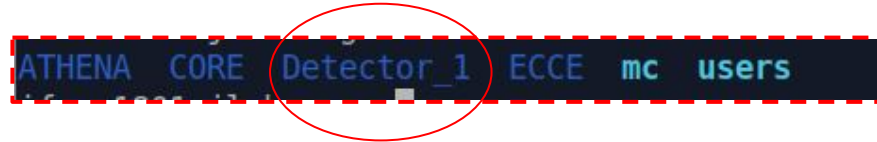
Job Submission to-do list with Fun4all

- **Fresh copy of simulation tool kit is now available:**
 - location: https://github.com/ECCE-EIC/productions/tree/detector_1

Backups

Upcoming production

- **Production naming theme**
- **Directory:**
 - JLab: /work/eic2
 - BNL:
 - S3:
- **Job Location**
 - Fun4all:
 - BNL: Inclusive, Jets and others
 - JLab: Exclusive, Diffractive and Tagging
 - DD4HEP: HTCondor
- **Storing Generated files**
 - Common location for all.



Look strange

Details

- **Documentation:**
 - Spreadsheet during the production
 - Wiki to report final location
- **Do we need to produce material map?**
- **Is analyzing DST tree part of the production? (Fun4all specific)**
- **Validation and feedback mechanism?**

