

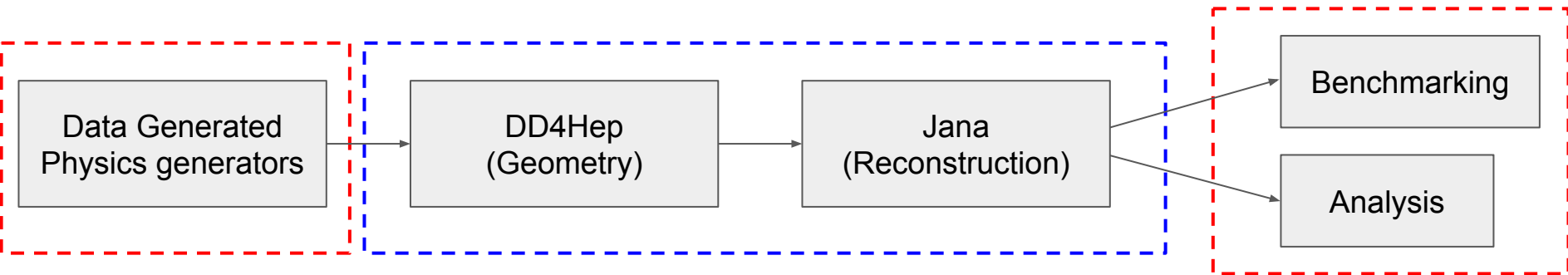
# **2nd Software Tutorial Introduction Session 2**

**Chris, Shyam, Wouter, Bill and many others**

**March/14/2023**

# ePIC Software Stack Workflow simplified version

## Tutorial Series 1



## Tutorial Series 2

## Tutorial Series 2

- **Also in Tutorial Series 2**
  - Integrate new collaborators into the workforce
  - Addressing FAQ
  - Showcase new features

# 2nd ePIC Tutorial Series

- **Three sessions planed**
  - ⚠ material 1st tutorial series will not be repeated.
- **Audience of each session**
  - **Non-expert level: quick starting guide and Analysis**
  - **Non-expert and expert level:**
    - Running simulation on PC
    - Running simulation on Farm
  - **Expert level: reconstruction, benchmarking, detector geometry**

# ePIC SOFTWARE TUTORIALS

For Non-experts

03/07, 03/08

Analyzing Simulation Output

03/14, 03/15

Running Simulations

03/21, 03/22

Writing Benchmarks

For experts



FOR DETAILS SEE:



# 2nd ePIC Tutorial Series Session 2


- **We assume:**
  - Went through Session 1 material
  - Locally installed EIC-shell and ROOT
  - Simulated data location
- **Goals and objectives:**
  - EIC-analysis framework
  - Reconstructing physics quantities
  - Geometry visualization
  - Event visualization
  - Simulation campaign
  - Running simulation in batch mode

14:00 → 14:15 **Introducing Tutorial Session 2**

14:15 → 15:00 **Eic-analysis Framework and Physics Variables Reconstruction**


Speaker: Christopher Dilks (Duke University)

 [Github Repository](#)

 [Tutorial \(README\)](#)

15:00 → 15:45 **Visualization: detector geometry and events**

Speakers: Shyam Kumar (Universita e INFN, Bari (IT)), Shyam Kumar (University and INFN Bari)

 [Visualization\\_Tutori...](#)

 [Visualize\\_DD4HEP.t...](#)

15:45 → 16:00

Coffee Break

16:00 → 16:50 **Simulation Campaign and HTCondor Example**

Speaker: Wouter Deconinck (University of Manitoba)

16:50 → 17:00 **Example of Job submission script with JLab SLURM**

Speaker: Wenliang LI (Stony Brook University CFNS)

# Where to find help?

- You can communicate via Mattermost

- Invitation link: [https://eic.cloud.mattermost.com/signup\\_user\\_complete/?id=i8gnmob4stdrpfrezhegxs3ew&sbr=sa](https://eic.cloud.mattermost.com/signup_user_complete/?id=i8gnmob4stdrpfrezhegxs3ew&sbr=sa)
- Everyone is there!
- See next few slides

- Landing page prototype:

<https://eic.github.io/documentation/landingpage.html>



**Let's meet virtually on The ePIC Software Cafe:  
Thursday 1pm**

- Gather town:  
<https://app.gather.town/invite?token=1-kRbw9zSaCW4IFhW9Ev>
- Bring your work and let's work together!
- You don't need to have specific questions to join

# BNL and JLab EIC Resources

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- **EIC Storage space: 2 PB (JLab) +2PB (BNL)**
- **How to get BNL SDCC account**
  - <https://www.sdcc.bnl.gov/information/getting-started/new-user-account>
  - **Project: EIC R&D**
  - **Sponsor: Thomas Ullrich**
  - **If you have questions contact **helpdesk (mattermost)** directly.**
- **How to get JLab computer account**
  - <https://cc.jlab.org/useraccounts>
  - **Project: EIC R&D**
  - **Sponsor: Markus Diefenthaler**
  - **If you have questions contact **helpdesk** directly.**

# Transferring small files to or from BNL or JLab?

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- Using sftp:
  - login into sftp:
  - JLab (my username: billlee): `sftp billlee@ftp.jlab.org`
  - BNL (my username: wli2): `sftp wli2@sftp.sdcc.bnl.gov`
- Then you navigate to your file location and use **\$get** or **\$mget** to download the files.
- Use **\$put** to upload the files