

Software Session

June 25, 2024



Agenda

Tuesday, June 25

14:00 → 15:30 **Software & Computing Session**
Convener: Raffaella De Vita (Jefferson Lab)

14:00	Introduction Speaker: Raffaella De Vita (Jefferson Lab)
14:10	News from SciComp Speaker: Brad Sawatzky (Jefferson Lab)
14:40	Analysis tools Speaker: Christopher Dilks (Jefferson Lab) IGUANA status and usage examples Speaker: Christopher Dilks (Jefferson Lab) FT energy correction Speaker: Asil Acar Momentum corrections Speaker: Christopher Dilks (Jefferson Lab) Inclusive kinematics Speaker: Christopher Dilks (Jefferson Lab)

Torgler Center Auditorium

10m	
30m	
50m	
30m	
7m	
7m	
7m	

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10m	
30m	
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7m	
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7m	

Thursday, June 27

11:00 → 12:30 **Plenary: Software tutorial**
Convener: Raffaella De Vita (Jefferson Lab)

11:00	Getting started with CLAS12 software Speaker: Nathan Baltzell (Jefferson Lab)
11:30	Submitting jobs via the OSG portal
11:50	Getting started with git and GitHub Speaker: Christopher Dilks (Jefferson Lab)

Theatre (Tribble Library)

30m	
20m	
30m	

- Large fraction of today's session focused on analysis tools
- Software tutorial on Thursday

News from the Software Group

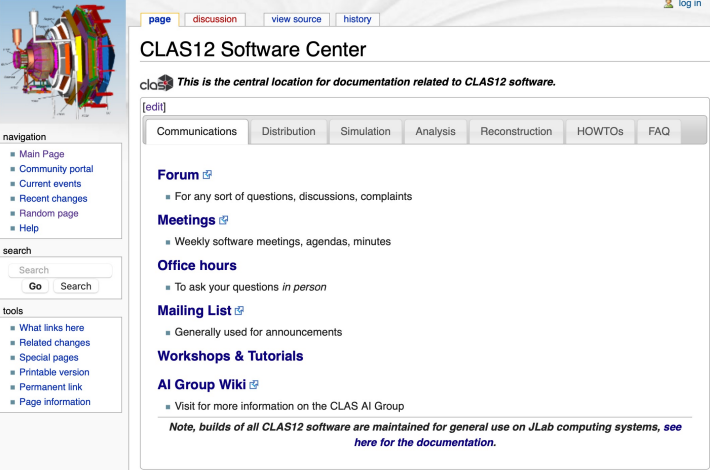
- CLAS12 AI group established, as announced at the March Collaboration meeting
 - Intended to foster communication and sharing of information and tools among collaborators using AI/ML
 - Meeting on the last Thursday of the month at 11 am EST via ZOOM
 - Mailing list: clas12_ai@jlab.org
 - Contact Richard Tyson (tyson@jlab.org) if interested in presenting at the monthly meeting, or if you have comments/questions
- Elections of the new Software Coordinator
 - Nominating committee to identify candidates to be appointed shortly
 - Candidates to be identified by the end of July
 - Elections in August
 - New Coordinator in charge from September 1st

User support

- Software center wiki
- Mailing list:
clas12_software@jlab.org
- Software forum
- Weekly meeting on Thursday at 11 am
- Office hours every week on Tuesday at 9:30 am
- Recording of previous tutorials available on the wiki

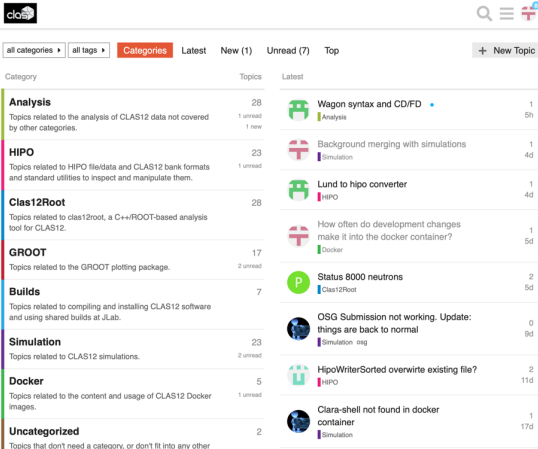
Centralized software wiki:

https://clasweb.jlab.org/wiki/index.php/CLAS12_Software_Center



The screenshot shows the 'CLAS12 Software Center' wiki page. It features a navigation menu with categories like Communications, Distribution, Simulation, Analysis, Reconstruction, HOWTOs, and FAQ. The main content area includes sections for 'Forum', 'Meetings', 'Office hours', 'Mailing List', 'Workshops & Tutorials', and 'AI Group Wiki'. A note at the bottom states: 'Note, builds of all CLAS12 software are maintained for general use on JLab computing systems, see here for the documentation.'

Discourse forum for software related questions and communications



The screenshot shows a Discourse forum interface. It displays a list of topics categorized by software components. The categories and their respective topic counts are: Analysis (28), HIPO (23), Clas12Root (28), GROOT (17), Builds (7), Simulation (23), Docker (5), and Uncategorized (2). Each category has a 'Latest' link and a 'New (1)' indicator. The 'Latest' link for Analysis is highlighted.

Category	Topics	Latest
Analysis	28	Wagon syntax and CD/FD
HIPO	23	Background merging with simulations
Clas12Root	28	Lund to hipo converter
GROOT	17	How often do development changes make it into the docker container?
Builds	7	Status 8000 neutrons
Simulation	23	OSG Submission not working. Update: things are back to normal
Docker	5	HipoWriterSorted overwrite existing file?
Uncategorized	2	Clara-shell not found in docker container