

ATLAS Distributed Computing Technical Interchange Meeting, January 21 - 23, 2025 at Stony Brook University, NY

Agenda page: <https://indico.cern.ch/e/TIM2025>

Focus topics and invited talks (preliminary)

Mario: Focus on where we want to be for HL-LHC. How to bring our community together and jointly work on activities (rather than many separate silos)?

Mario: Automating our day-to-day work to enable effort to enable future-looking activities

Agenda

=====

1st day (½ + ½) (WG : Rod, Fred, Ivan, Judith, Paul,..)

Distributed Computing issues and challenges

Errors studies

Operations and automation

Outcome : list of qualification projects (with timeline and needed effort)

2nd day (afternoon) (WG: Andreu, Ilija, Timo,...)

Documentation : Role of ML and GenAI to detect ATLAS sites issues (GPT4ADC)

3rd day (morning)

WG (Shawn, Hiro) : DC(26) mini-challenges / ramp-up challenges

- US and UK mini-challenges
- NANO tests available to other sites and clouds on demand.

(FredS, Mario, Alexei) : Modeling and HT workflows tracks (splinter meeting)

- Distributed computing and site operations
 - Monitoring TF first report [?]

- Site evolution
 - ARM, Cloud, ...
 - Memory optimization (RSS experiences)
- Role of ML and GenAI
- <selected> HL-LHC demonstrators and R&Ds
 - Tokens, future HPC integration, smart writing, and data grouping
- DC(26) mini-challenges / ramp-up challenges
 - US and UK mini-challenges
 - NANO tests available to other sites and clouds on demand.
- Monitoring/Analytics
- REDWOOD: Modeling and HT workflows tracks (maybe for plenary session talk or/and splinter meeting ?)
- Analysis Facilities
- Storage to tape
 - Metadata to facilitate tape grouping
 - Setting limits to tape storage to avoid writing over the pledge (PIC, TRIUMF,...)
 - MoU weights to data stored on tape in addition to T0 export.
- ARC-CE/aCT token support and the future of aCT
- Invited talks
 - EIC and ePIC SW&C - Torre
 - AI/ML @BNL and SUNY

Timeline

Day 1 : Tue Jan 21

- 14:00 - 17:30 Plenary session (with Zoom connection)

Day 2 : Wed Jan 22

- 09:00 - 13:00 Plenary session (with Zoom connection)
- 13:00 - 14:00 lunch
- 14:00 - 17:30
 - Splinter meeting 1 : Distributed Computing and Sites Operations
 - Splinter meeting 2
- 19:00 TIM dinner

Day 3: Thu Jan 23

- 09:00-11:00 Plenary session (with Zoom connection)
 - Splinter meetings reports
- 11:00-12:30 Wrap up and action items
- 14:00-17:00: Optional
 - For SW&C / ADC / US ATLAS SW&C coordinators
 - Visit BNL and meet with the SCDF division and NPPS staff

Info

- No registration fees
- BNL will pay for coffee breaks
- From Chris :
 - Lunch - I suggest that attendees avail themselves of the campus dining facilities next door to Wang - alternatively, someone goes out with a sandwich order. Ordering lunch through conference services is painful.
 - Dinner: The Taj - Crown of India is opposite campus & certainly big enough. I think they will give me a deal. Other possibilities exist in Port Jeff
 - After meeting, beers - Several bars around, including the Bench next to Stony Brook station, and the Taj also has a lovely bar.

Participants (preliminary, final list will be limited to 35 (?) persons max)

1. Chris Bee
2. Doug Benjamin (yes)
3. Lincoln Bryant (yes)
4. Kaushik De
5. Ivan Glushkov (yes)
6. Hironori Ito
7. Alexei Klimentov
8. Mario Lassnig (yes)
9. Fred Luehring (yes)
10. Verena Martinez Outschoorn
11. Shawn McKee (yes)
12. Paul Nilsson
13. Andres Pacheco Pages (yes)
14. Ofer Rind (yes)
15. David South
16. Judith Stephen (yes)
17. Rod Walker(yes)
18. Torre Wenaus (yes)
19. Xin Zhao (yes)
20. Fred Suter (ORNL) - if we want to have distributed computing modeling as a focus topic or splinter meeting
21. Riccardo Di Maio
22. Timo Wilken

Please confirm participation:

1. Alessandra Forti
2. Rob Gardner
3. Chris Lee
4. Fa-Hui Lin
5. Fabio Luchetti
6. Tadashi Maeno

7. Shigeki Misawa
8. Tom Smith
9. Ilija Vukotic

Remote participants:

1. Sasha Alekseev (via Zoom only - no US visa)
2. Paolo Calafiura
3. Tania Korchuganova (via Zoom only - no US visa and no hope to get it)
4. Fernando Barreiro
5. Philippe Laurens (no, but can connect remotely)
6. Eddie Karavakis (not 100% sure due to pregnancy due date but I might be able to make it to the meeting if needed)

Not coming:

1. Misha Borodin
2. Martin Barisits
3. Dimitrios Christidis