CompF5: End User Analysis

Snowmass Parallel

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https://snowmass21.org/computational/analysis

What's happening today

End User Analysis Agenda is at:
https://indico.fnal.gov/event/22303/sessions/20648/#20220718

- Introduction
- **Summary of Contributions**
- Recommendations & Highlights of Report
- General Discussion

Thank you, writers!

a. **Analysis Frameworks**
   i. [2202.02194] HL-LHC Computing Review Stage 2, Common Software Projects: Data Science Tools for Analysis (arxiv.org)
   ii. [2205.06121] HL-LHC Analysis With ROOT (arxiv.org)
   iii. [2203.13768] The CAFAna framework for neutrino analysis (arxiv.org)
   iv. [2203.09886] Analysis Description Language: A DSL for HEP Analysis (arxiv.org)
   v. [2011.05329] Jas4pp -- a Data-Analysis Framework for Physics and Detector Studies (arxiv.org)
b. **Experiment case-studies**
   i. [2203.08293] The Sanford Underground Research Facility (arxiv.org)
   ii. [2203.07564] Belle II grid-based user analysis (arxiv.org)
   iii. [2203.07700] Snowmass2021 Cosmic Frontier: Modeling, statistics, simulations, and computing needs for direct dark matter detection (arxiv.org)
   iv. [2203.08338] Dark-matter And Neutrino Computation Explored (DANCE) Community Input to Snowmass (arxiv.org)
c. **Overviews**
   i. [2203.10393] In Search of Excellence and Equity in Physics (arxiv.org)
   ii. [2008.13636] HL-LHC Computing Review: Common Tools and Community Software (arxiv.org)
   iii. [2203.07237] HEP computing collaborations for the challenges of the next decade (arxiv.org)
   iv. [2203.07645] Software and Computing for Small HEP Experiments (arxiv.org)

Thank you, contributors!

- Workshop participants
- Townhall participants
- Everyone who's here now!
- **Join us for more discussion!**
  - 1 PM Pacific, every day of SNOWMASS CSS
  - In-person: East side of Kane, under the umbrella
  - Zoom: https://ucdenver.zoom.us/j/94815946373

Comments on the draft report can be made
https://app.markup.io/invite/accept/fPba9OKw

Other Related Sessions at the CSS

Please comment if we're missing something!

Monday 7/18
- 10 am, CompF2 (theory)

Tuesday 7/19
- 8 am, CompF3 (ML)
- 10 am, CompF4 (facilities)
- 2 pm, Community Engagement, "Careers and Training the next Generation"

Wednesday 7/20
- 8 am, CompF1 (algorithms)
- 10 am, CompF6 (quantum computing)

Thursday 7/21
- 8 am, CompF Big Experiments forum
- 10 am, CompF7 (data preservation)
- 10 am, Cosmic Frontier "Large Volume data analysis, Simulation, and HPC usage"

Friday 7/22
- 8 am, CompF Frontier Report

Saturday 7/23
- 10 am, CompF Small Experiments forum

Sunday 7/24
- 10 am, AcceleratorF-CompF forum

Get Involved

- Compose an email to **listserv@listserv.fnal.gov**
  - Leave the subject section of the email blank
- Include in the message body:

  subscribe snowmass-compf05-useranalysis first_name last_name

  Or this link

#compf05-useranalysis

Conveners hosting writing sprint sessions every day: 1 PM Pacific.
In-person: East side of Kane under the umbrella, Zoom: https://ucdenver.zoom.us/j/94815946373
Interested parties are welcome to join and add further discussion

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Thank you to all contributors so far, and for future input!