Coordinating Panel Software & Computing

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News

The DPF Executive Committee would like some things from us

- They would like a paragraph for their newsletter describing activities
  - First one could be Rising Star
  - Call for New Members

- They remind me we need a deputy chair
  - I would suggest interested people e-mail me directly
  - From our Founding Document

"The Chairperson, in consultation with the DPF EC, will choose from among the Panel members a deputy whose main responsibility is to substitute for the chairperson if they become unavailable and to otherwise assist in tasks delegated to him/her by the chairperson. The deputy serves at the pleasure of the chairperson, and their mandate expires when the chairperson's term of service ends."

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Rising Star

Lindsey Gray (Fermilab) is recognized for his transformative contributions to modernizing software and computing for high-energy physics, particularly through his leadership in developing **Coffea**, a Python-based framework that has fundamentally changed how physicists analyze large datasets. Widely adopted within CMS and increasingly influential across other experiments, Coffea has enabled more efficient, scalable analysis while connecting particle physics to the broader scientific Python and data science ecosystems. Beyond Coffea, Lindsey has pioneered the application of machine learning to particle reconstruction, including graph neural networks, and has contributed to advanced detector technologies for the HL-LHC. His combination of technical innovation, practical understanding of physics requirements, and sustained leadership in building and supporting a vibrant software community has had a lasting impact on how particle physics research is conducted.

Giordon Stark (UC Santa Cruz) is recognized for his pioneering contributions to statistical analysis, software infrastructure, and the modernization of computing in high-energy physics. As a core developer of **pyhf**, he has helped transform how particle physics results are preserved, combined, and reinterpreted by enabling the publication of reusable statistical likelihoods and introducing modern computational techniques, including GPU acceleration, into statistical inference. His contributions extend to the software infrastructure supporting the ATLAS Inner Tracker upgrade and the development of scalable, Python-based analysis workflows and analysis facilities in preparation for the HL-LHC. Giordon has also demonstrated exceptional leadership through extensive training and support for the broader scientific community, as well as his advocacy for accessibility and inclusion. His work combines technical excellence with a commitment to making advanced computing tools more widely available and sustainable for future generations of physicists.

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Software Support

As a reminder, I took a stab at an AI Maintenance focused proposal

https://docs.google.com/document/d/1BWmR43x5XBiC82Svlis1p0rrfifce2Ip-wwM-uaqjCU/edit?tab=t.0#heading=h.3uhc37lsj1tj

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Software Support

Survey

- We did get NOvA to respond, but only in the project section of the survey with no package responses yet

If we want to make a Genisis Proposal we need to

- Find a host
- Make a governance structure
- Identify a process for select the supported projects.

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CLARIPHY

How to help?

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Other Topics

AI and the rise of the token economy

The cost of hardware

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