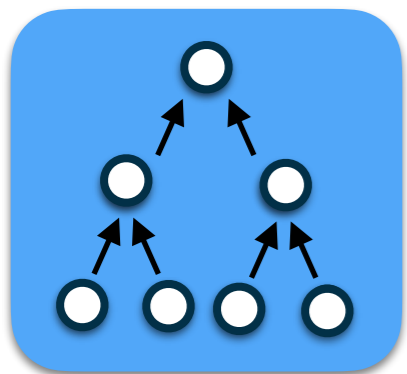


Computational Frontier Workplan

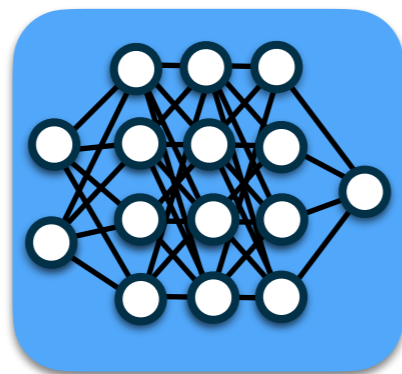
Daniel Elvira

Fermilab



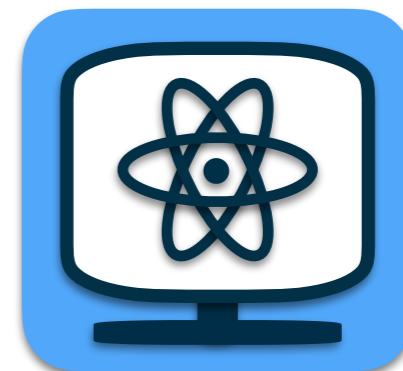
Steve Gottlieb

Indiana University



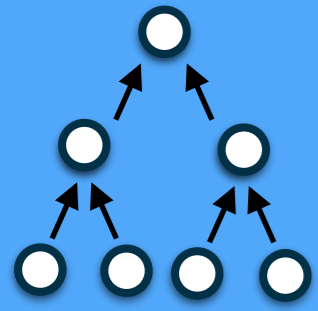
Ben Nachman

*Lawrence Berkeley
National Laboratory*



Computational Frontier Organization

2



CompF01

Experimental
Algorithm
Parallelization

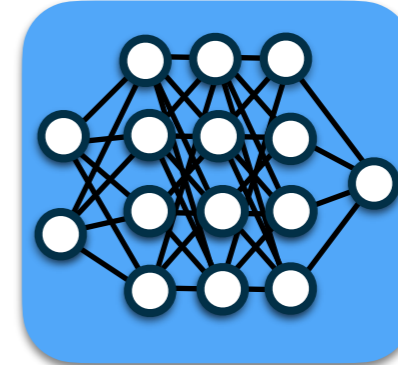
Giuseppe Cerati (FNAL), Katrin Heitmann (ANL), Walter Hopkins (ANL)



CompF02

Theory
Calculations
& Simulation

Peter Boyle (BNL), Kevin Pedro (FNAL), Ji Qiang (LBNL)



CompF03

Machine
Learning

Phiala Shanahan (MIT), Kazu Terao (SLAC), Daniel Whiteson (Irvine)



CompF04

Storage and Processing
Resource Access
(Facility and Infrastructure R&D)

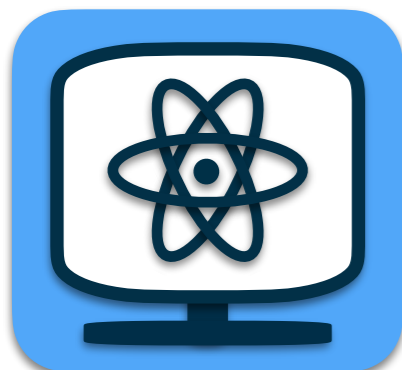
Wahid Bhimji (NERSC), Meifeng Lin (BNL), Frank Würthwein (UCSD)



CompF05

End User
Analysis

Gavin Davis (U. Mississippi), Peter Onyisi (U. Texas at Austin), Amy Roberts (UC Denver)



CompF06

Quantum
Computing

Travis Humble (ORNL), Gabriel Perdue (FNAL), Martin Savage (U. Washington)



CompF07

Reinterpretation & Long-term
Preservation of Data and Code

Stephen Bailey (LBNL), Kyle Cranmer (NYU), Matias Carrasco Kind (Illinois/NCSA)

Liaisons

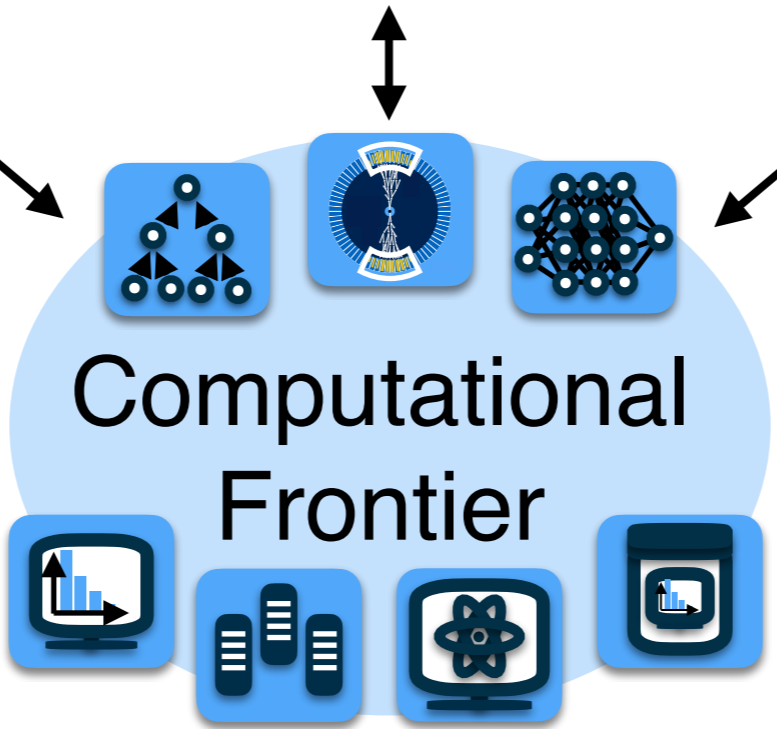


**Rare Processes
& Precision**
Mike Williams (MIT)

Energy Frontier
Peter Onyisi (Texas)

Neutrino Frontier
Alex Himmel (FNAL)

Cosmic Frontier
Deborah Bard (NERSC)
Brian Yanny (FNAL)



Underground facilities
Eric Dahl (Northwestern)

Theory Frontier
Steven Gottlieb (Indiana)

Accelerator Science/Technology
Jean-Luc Vay (LBNL)

Instrumentation Frontier
Darin Acosta (Florida)

Community Engagement
David Bruhwiler (RadiaSoft)

Parallel Sessions



- Mon, 8 a.m, CompF5 End User Analysis, 254 MGH
- Mon, 10 am., CompF2 Theory Calculations & Simulation, 254 MGH
- Tue, 8 a.m., CompF3 Machine Learning, 238 HUB
- Tue, 10 a.m., CompF4 Storage and Processing Resource Access, 238 HUB
- Wed, 8 a.m., CompF1 Experimental Algorithm Parallelization, 248 MGH
- Wed, 10 a.m., CompF6 Quantum Computing, 248 MGH
- Thur, 10 a.m, CompF7 Reinterpretation and Long Term Preservation of Data and Code, 284 MGH
- Fri, 8 a.m., Frontier Report, 220 Kane
- Fri, 10 a.m., Industry Session, 220 Kane



- Thursday, 8 a.m., Big Experiments, 110 Kane
- **Friday, 10 a.m.**, Quantum Information Science (with Theory Frontier), Check Indico for room
- Saturday, 10 a.m., Small Experiments, 111 JHN
- Sunday, 10 a.m., Accelerator, CompF XF 210 Kane



- Monday, 2 p.m., PS:: AI/ML Modern Machine Learning for HEP
- Monday, 4 p.m., Lattice QCD (with Theory Frontier)
- Monday evening, Industrial Partners
- Tuesday evening, Industry Networking
- Saturday, 3:30 p.m., Future of Computing for HEP
- Saturday, 5:30 p.m., PS:: HEP/Quantum Science and Technology (QST) Intersections [not organized by CompF]



- The Topical Group reports can be downloaded from links on the Computational Frontier wiki page:<https://www.snowmass21.org/computational/start>
- Look for the Draft Reports Section
- The Frontier Report can be found there, too!



- We welcome your input on the reports.
- Each topical group has a mailing list and a Slack channel. Details on wiki pages.
- Emails for frontier and topical group conveners and liaisons are found on wiki page.
- Computational Frontier wiki pages start here:
<https://www.snowmass21.org/computational/start>