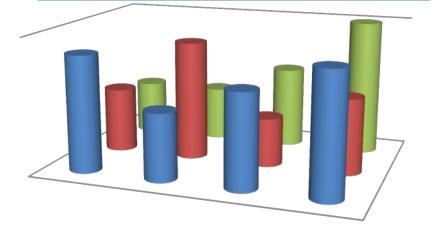
HEP Software Foundation Workshop

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Congratulations and Good Wishes

At HEP, Science progresses via Cylinders of Excellence – as G. Crawford once described them – Computing including software is managed within these individual cylinders. This model has achieved many successes

Frontiers, Theory, and Technology – Experiments and Projects



The HSF foundation proposes to try to address software (specific and general) challenges. There have been other recent efforts that are structured towards specific goals.

HEP is International

- At the same time, each sub group has challenges, resources, and opportunities that are unique to its environment.
- This is true not just for computing and software but for a group or individual's participation in a large international collaboration in general
- For example, in US we have our newest P5 report following the intensive community study that we called Snowmass
- Snowmass addressed some of our computing challenges and successes via the Computing Frontier

Computing and Connections at HEP

As part of the vision of our AD James Siegrist, we are

- * Strengthening HEP connections within Office of Science
- * New Connections Thrust includes ASCR and a focus on exploiting new technologies
 - * Dec 13 Topical Panel on Computing –Meeting & Report
- * Technology Connections report
- * HEP Forum for Computational Excellence HEP FCE

HEP-FCE

HEP Response to P5 Recommendation on Computing Implements Opportunity identified by Topical Panel Initial Focus

- Optimize US Resources (includes external)
- -- foster cross cut computing solutions (& data)
- -- strengthen intersections with ASCR
- -- exploit new architectures/ technologies
- -- facilitate cross cut communication for various HEP collaborations HSF, OSG, G4, CAMPA, USQCD, SciDAC.....

Directors: Rob Roser and Salman Habib

http://press3.mcs.anl.gov/hepfce/

Computing and Discovery

- Computing at HEP has, and needs to be an integral part of our Scientific Discovery Goals.
- Recent discoveries like Higgs, neutrino mixing angle, dark energy....have been inherently dependent on exceptional computing – as acknowledged in the science talks...
- As we move to new windows of discovery this audience deserves special applause for their contributions and forward thinking.
- Looking forward to new discoveries....