DUNE/NPC Support proposal

Michael Kirby, Fermilab/Scientific Computing Division

Oct 31, 2019

What's the problem?

- Eileen Berman did a herculean effort supporting DUNE as computing liaison, writing tutorials, user support, documentation, website maintenance, user database, etc.
  - Anna Mazzacane is SCD Liaison, but has other significant responsibilities
  - Many of tasks performed by Eileen have been matrixed out across SCD/ND/DUNE
- User support, tutorials, documentation falls by the wayside
- Currently, the DUNE Support Group in SNOW is:
  - Andrew Norman, Heidi Schellman, Michael Kirby, Tom Junk, Stu Fuess
  - We don't actually supply all that much support
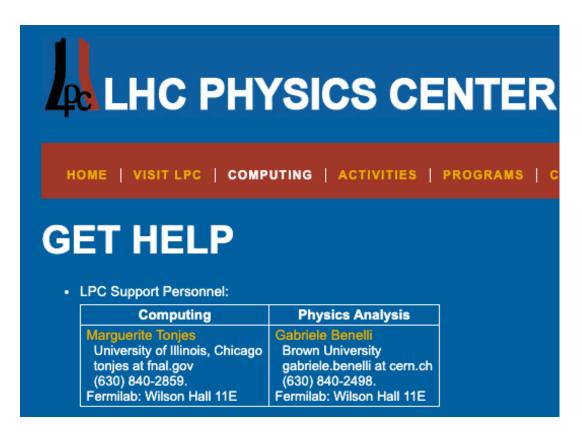 - Annual tutorials, and documentation when we get to it

🎔 Fermilab

What all does/could user support entail?

- getting computing accounts

- opening Service Now tickets

- Interactive computing - kerberos, ssh, CVMFS, UPS, mrb, NAS storage volumes, proxies, ifdh, SAM4Users, art (fhicl), etc.

- Grid submission - jobsub, SAM, dCache, ifdh, fifemon, POMS, proxies, singularity, stashcache, CVMFS, sites, etc.

- making decisions about the configuration of gpvms (not administration!) and software

- creation of additional documentation specific to NPC experiments

- NPC Data Analysis School
  - annual 1-week analysis school that would jumpstart new experiment members
  - help organize the speakers, prepare tutorials, and run the school
  - Coordinate with the "Neutrino University" and Neutrino Summer School
  - can build upon the FIFE tutorials from the past as part of services introduction

🫎 Fermilab

CMS LPC Computing Support job Ad

- "The successful candidate will be located at the LPC and will act as liaison between the LPC user community and the service providers in the Fermilab Scientific Computing Division (SCD). The user support task is to replicate and triage reported user problems and requests, and work with the user and with the SCD service providers to resolve the issues. Further, the candidate will take an active role in monitoring the LPC Tier-3 analysis facility, timely identifying issues with the computing/storage facilities, including grid-based job submission and data access tools. The candidate will be responsible for keeping up-to-date documentation for CMSSW releases and computing tools for the Tier-3 via the LPC "how-to" web pages. The candidate will have the opportunity to train the LPC residents and visitors to use the LPC computing environment. In addition, the candidate is expected to provide support to the LPC coordinators to develop and maintain various metrics related to LPC activities. Depending on the interest of the candidate, there are opportunities to participate in the development of new applications and tools for data processing and analysis in CMS." - Cecilia Gerber, UIC

LHC PHYSICS CENTER

HOME | VISIT LPC | COMPUTING | ACTIVITIES | PROGRAMS | C

GET HELP

- LPC Support Personnel:

Computing	Physics Analysis
Marguerite Tonjes University of Illinois, Chicago tonjes at fnal.gov (630) 840-2859. Fermilab: Wilson Hall 11E	Gabriele Benelli Brown University gabriele.benelli at cern.ch (630) 840-2498. Fermilab: Wilson Hall 11E

🟦 **Fermilab**

(very rough) Proposal

- Try to acquire funding for an NPC Computing Support position

- hopefully, coordinate between DUNE, MicroBooNE, ICARUS and SBND

- Similar to LCP, request to have someone from a university be "bought out" through common funds, project funds, pre-operations (anywhere)

- Discussing options from the DUNE side with Gina Rameika (and possibly Ed, Stefan, and Eric James) this afternoon

- Following that, will have discussions with NPC leadership and possibly other experiments

- open question about having a "physics analysis" support for the NPC considering the possible number of experiments

🟣 **Fermilab**