FY13 Applications Group Potential Projects

List of potential application group projects for FY13. We are not actively pursuing all of these tasks, many are dormant due to lack of manpower.

Fermi

- Complete pipeline improvements to support "split" mode and job cancellation
- Support implementation of Dirac/Grid interface
- Performance/scalability improvements for trending database
- Upgrade core databases to Oracle 11/
- Migrate to new "Fermilnx" machines
- Clarify ability to run on generator power
- Support use of NASA batch machines at Ames?
- Ongoing maintenance, support and problem solving
- Support migration to new batch system
- Continued support for collaboration database, user support, newsletter(?)
- Continued support for speakers bureau
- Continued WIRED support

LSST Camera Control System (CCS)

- Continued development of core CCS infrastructure
- Continue support for build infrastructure
- Continue development of documentation, use cases, design requirements
- Develop CCS tools needed by test stand, testing framework
    - Develop tools needed by vertical slice test (VST)
        - Console for controlling DAQ
        - FITS image output from VST
        - Console support for test image viewing
        - Scripting of image capture tests
- Continue to support refrigeration tests
- Prepare for single filter test in France
    - Develop single filter test GUI
- Enhance functionality of Console

LSST Dark Energy Science Collaboration

- Continued support of collaboration database
    - More maintainable sign-up mechanism needed
- Continued use of pipeline for ImSim etc
- Explore future use of data catalog

LSST Testing and I&T

- Support for developing test databases, web interface, data catalog, data curation, pipeline

EXO

- Implement web viewing of offline analysis and trending results
- Update Processing Summary for new pipeline
- Database support for "golden run list", enhanced web interface for data entry
- Complete performance improvements for web based data monitoring tools
- Improve/add new plots to online data monitoring
- Display of internal calibration records in data monitoring application
- Implement requested improvements to online event display
- Continued "computer coordination" role
- Continued support/maintenance for EXO tools (daq gui, online event display, data monitoring, online monitoring, pipeline, data catalog, web tools)
- Interface for loading new data into conditions system (currently this is done by me by hand)
- User database support

KPiX

- Complete evaluation of requirements for KPiX calorimeter testing
- Decide on support levels if any

SiD/lcsim/LCIO/HPS/linearcollider.org

- Continued support of forum.linearcollider.org
- <Waiting for input from Norman/Jeremy>

- Snowmass preparation?

CDMS/Dark Light

- ?

Miscellaneous

- Continued support of SSRL download app
  - Understand any future development requirements
- Theory group support (subversion/jenkins)

Technology Evaluation

- HTML5/GWT/jQuerty/etc -- choose strategic direction
- Restful interface tools/evaluation
- Explore data visualization toolkits
- [Data Catalog 2.0](#)

Core Technologies

- Web application framework support
  - Complete login filter integration with Crowd. Deploy for SRS/EXO/Fermi/...
    - Organize cyber-security review?
  - Migrate to Java7/tomcat 7
- Continued subversion/CVS/Jenkins support
- Pipeline support
  - Support for new SLAC batch system
- JAS/AIDA support
  - We at least need to support JAS "framework" for use by LSST