APS | DIVISION OF
PARTICLES & FIELDS

DPF 2017

MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: **237**   Type: **Presentation**

The FabrIc for Frontier Experiments Project at Fermilab: Computing for Experiments

Thursday, 3 August 2017 13:47 (17 minutes)

The FabrIc for Frontier Experiments (FIFE) project is a
major initiative within the Fermilab Scientific Computing Division
designed to lead the computing model for non-LHC experiments at Fermilab. The FIFE project fosters close collaboration between experimenters and
computing professionals to serve high-energy physics experiments of differing scope and physics area. The project also tracks and provides feedback on the development of common tools for job
submission, identity management, software and data distribution, job monitoring, and databases for project tracking. Since the project's inception, the computing needs of the experiments under the FIFE umbrella have significantly increased, and present a complex list of requirements to their service providers. To meet these requirements, recent advances in the FIFE toolset include a new identity management infrastructure, significantly upgraded job monitoring, and a workflow management system. We have also upgraded existing tools to access remote computing resources such as GPU clusters and sites outside the United States. We will present these recent advances, highlight the nature of collaboration between the diverse set of experimenters and service providers, and discuss the project's future directions.

Primary author: Dr HERNER, Kenneth (Fermilab)

Presenter: Dr HERNER, Kenneth (Fermilab)

Session Classification: Computing, Analysis Tools, and Data Handling

Track Classification: Computing, Analysis Tools and Data Handling