Contribution ID: **322** Type: **not specified**

Data Preservation at the Fermilab Tevatron

Thursday 6 August 2015 15:18 (12 minutes)

The Fermilab Tevatron collider's data-taking run from 2001 to 2011 yielded a dataset with rich scientific potential. The CDF and D0 experiments each have nearly 10 PB of collider and simulated data stored on tape. A large computing infrastructure consisting of tape storage, disk cache, and distributed grid computing for physics analysis with the Tevatron data is present at Fermilab.

The Fermilab Run II data preservation project intends to keep this analysis capability fully sustained through the year 2020 or beyond. We are implementing a system that utilizes virtualization, automated validation, and new standards in both software and data storage technology, and includes the ability to generate new Monte Carlo simulation. It also leverages resources available from currently-running experiments at Fermilab. We will present the status, benefits, and challenges of data preservation efforts at the Tevatron.

Oral or Poster Presentation

Oral

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Session Classification: Accelerators, Detectors, Computing

Track Classification: Computing