

# Report from $p\bar{p}$ Experiments

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# Our History of Archiving

- Run I data:
  - CDF didn't archive Run I data.
    - Pulling machine off, lost Run I data;
  - D0 made Quaero:
    - 4-vectors for each objects
    - All SM background models
    - Not many access to Quaero -- not widely used
  - Rob Roser can give a talk on Quaero at the next workshop.

## For Run II data

- This is the beginning of thinking about end of Run II data preservation.
- CDF & D0 each has about 300 FTE right now.
- After Run II data taking, we expect 100 FTE working on data analyses and computing support for at least several years .
- CDF: reconstruction code is frozen, no plan to change it.

# After Run II Data Taking Complete

- Each experiment will have ~10PB data.
- Goal to keep all raw data, reconstructed data and root analysis data.
- Keep migrating to higher technology storage by Fermilab/CD.
- CDF and D0 plan to keep the computing environment and infrastructure live for about 5 years while collaboration active
- Mainly for analyses.
- This is our current thinking.

# About Data Preservation

- At this workshop, we learned a lot, and interested in data preservation discussions.
- We will bring what we learned to the collaboration and to find manpower for this.
- We discussed two kinds of archiving:
  1. CDF and D0 do independent archiving.
  2. Combine CDF and D0, using same format for both experiments
    - This needs additional efforts make things more challenging.
    - May not have enough efforts.

# Preserve at What Level

Three levels of possibilities after end of data taking:

- 1) Ideally, we can fix reconstruction code to reprocessing; but may not be possible.
- 2) Remaking ROOT format data for adding corrections and fixing things;
- 3) If 2) also not possible, we will continue using the existing ROOT format to do analysis.

- Thanks to all who attended  $p\bar{p}$  experiments discussions!