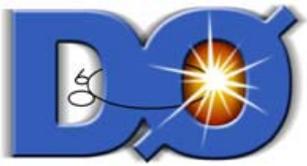




# Trigger Upgrade Workshop: Summary

- Workshop was useful
  - ◆ Allows detailed discussions that would not happen otherwise
  - ◆ Gives a more complete picture
  - ◆ Should have another in about 6 months
- Installation dates
  - ◆ We have a serious shot at getting all of the trigger upgrades in place ~summer 05
    - ▲ CTT parts all ready Feb 05
      - Installation/commissioning strategy with ~0 downtime
    - ▲ L1cal complete and precommissioned July 05
      - Need MSproject schedule to reflect this



# Summary, cont.

- Installation schedule

- ◆ CTT

- ▲ Try putting in prototype in Summer 04
- ▲ As tested production boards become available, can install with ~1 day shutdowns
- ▲ Can use spare DFE motherboards (~20)
- ▲ Can run Run2a algorithms in new hardware and switch via remote download

- ◆ L1Cal

- ▲ 10 week installation schedule, including 4 weeks of technical commissioning
- ▲ UIC will investigate optimal installation scenarios
  - BLS cables
  - Rack locations



# Summary, cont.

- L1cal controls & monitoring
  - ◆ Hardware configuration reviewed
    - ▲ Use of vertical interconnects
    - ▲ Centralized control and monitoring from L1TCC
  - ◆ Detailed list of tasks and functionality from Philippe
    - ▲ MSU (Philippe) responsible for L1TCC programming
    - ▲ Northeastern (Dennis) responsible for ADF calibration code
    - ▲ FSU (Todd, Haryo) responsible for L1cal Examine



# Summary, cont

- Trigger menu
  - ◆ Combination of
    - ▲ Inclusive single-object and di-object triggers for high-efficiency precision measurements
    - ▲ Specialized search triggers aggressively using multiple capabilities of upgraded trigger
  - ◆ Simulation/study priorities
    1. Single EM
    2. Higgs to tau tau
    3. Missing Et
    4. Complicated trigger du jour (aka wacko trigger)
    5. Jets
    6. Single muon
  - ▲ Need more interaction with run2a triggers/people
    - ▲ Trigger board
    - ▲ Trigger workshop



# Summary, cont.

- CTT action items
  - ◆ Decide on number and type of FPGA's by Feb 04
  - ◆ Meet in early Dec to evaluate needs
  - ◆ Output to L1caltrack
    - ▲ Many more details in Meenakshi's minutes
- CalTrack action items
  - ◆ Check latency situation at 396 ns
- L1Cal action items
  - ◆ Update MSproject schedule
  - ◆ Go through Dan's & Hal's lists of tasks and define clear responsibilities



# Summary summary

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- Speakers with slides: please send copies of slides to darien ([darien@fnal.gov](mailto:darien@fnal.gov))
- Thanks for coming
- Looking forward to a powerful new trigger in '05
- Suggestion (Terry): Summarize the workshop conclusions at an ADM soon