

SoLID DAQ

# Requirements

- Read out all Calorimeter channels and PID detectors
- Trigger
- L3 farm for data reduction
- 200 KHz trigger rates

# Rough price estimate

- Cost estimation
- FADC 250      4000      41      164000
- FADC 125      4000                      0
- F1 TDC          4000      19      76000
- CTP 5000      10      50000
- SSP 5000      2      10000
- GTP 5000      1      5000
- TS 5000      1      5000
- TID 3000      14      42000
- SD 2500      12      30000
- VXS crate      8000      12      96000
- L3 farm node 5000      12      60000
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- 538000 \$

# Flash ADC

- PEPP0 : injector positron experiment
  - 2 prototype FADC
  - 2 New Hall D FADC
  
  - Test pipelining
  
  - Goal : reach 100 KHz similar to Hall A Compton DAQ
  - Some beam maybe available in October

# Hall D developments

- Elliot Wollin and Vardjan
  - Cosmics test stand this fall using CODA 3 alpha
  - CODA 3 support L3 farm nodes
    - All events go through L3 when going to Event Recorder
    - Events transferred using ET between nodes
    - Nodes and process managing being worked out by Vardjan
  - CODA 3 Alpha available after Thanksgiving

# Test stand

- Cost estimation
- FADC 250      4000      4      16000
- FADC 125      4000           0
- F1 TDC      4000      2      8000
- CTP 5000      1      5000
- SSP 5000      1      5000
- GTP 5000      1      5000
- TS 5000      1      5000
- TID 3000      2      6000
- SD 2500      2      5000
- VXS crate      8000      2      16000
- L3 farm node 5000      2      10000
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- 81000 \$