# *Towards a CALICE Run Plan*

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# *Installation*

- Computing goes in first (2nd week of April)
- Data storage & transfer, remote control, ACNET
- Detector installation begins in the 3rd week of April
  - HCAL table taken out of container (~1 day)
  - HCAL craned in and rolled (~1 day)
  - TCMT installation (platform, rails,...) (~1day)
  - Services + Track-trigger (~1 day)
- Stuffing takes place in last week of April
- Installation will take place in open access
- Very likely that there will not be any other expt. taking data at that time

# *Commissioning*

- Begins in the last week of April and extends into the first week of May
- Change in training requirements
- Expecting to be primary users of the beam since nothing else is scheduled
- Exploratory studies:
  - triggering
  - cerenkov triggering
  - beam composition (w/ and w/o scatterer)
- Accumulation of beam dump muons for calibration purposes

# General Themes

- Period 1
  - overlap with CERN data
  - exploration of the 1-10 GeV/c region
  - calibration samples
- Period 2
  - main low energy collection period
  - filling in the gaps (+ calibration)
- Period 3
  - repeat with scint. ECAL
- Nominally working with a 4 sec flat-top, every minute, 12 hrs/day
- 1 sec flat-top may be useful for beam flux limited running conditions

# *Data Collection Period 1*

- May $7^{th}$ - $27^{th}$ , 2008
- Likely concurrent running w/ LHC-b expt.
- Start with the high energy running and work downward
- Approx. 2 weeks for high energy (10 GeV/c and above) running and 1 week for low
- This implies ~ 60 high energy 250K event configurations (E, pid, angle, w/ or w/o ecal)
- Situation on the ground may and most probably will require adjustments

# *Interim*

- June 2008
- No data taking but analysis feedback needed
- The CALICE triggering and tracking apparatus extends 5m upstream of the motion table
- Some of this may have to be moved during this period to accommodate expts. running during this period

# *Data Collection Period 2*

- July $9^{th}$ - $29^{th}$ , 2008
- Main period for low energy data collection
- 2 weeks devoted to this running (start low and move higher)
- Remaining week for filling in the gaps and calibration data

# *Very Low Energy Running*

- i.e. 1-5 GeV/c running
- Rather difficult w/o cerenkov triggering
- e.g. @ 2 GeV/c :

  ~ 20 pions/spill @ $7*10^9$

  ~ 3% pion content

  since we can go ~ 100 times higher....

  lead scatterer to clean the beam

  will most probably loose a factor of 3 to clean up a factor of 30

  Ideally lead-assisted cerenkov triggering

# *Miscellaneous*

- Shifts

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- Coming to Fermilab

  web page detailing info on registration, computing, training etc. to be released soon
- Visa

  request Roy Rubinstein (royr@fnal.gov) for letter of invitation