

# Test Beam for DHCAL?

- Test beam would be very useful for
  - Actual testing of calorimeter performances
    - Various sensitive gap technologies
    - Identify issues with different technologies
  - Provide a clear objectives of development efforts
  - Strengthens proposals
  - Use the data for development of EF and tracking algorithms in DHCAL, along with cosmic ray
- At the LCWS2002, Jean Claud Brient presented
  - CALICE collaboration plans to run a Test beam in the year 2004
    - Not clear where such beam is available, based on G. Fisk's presentation of available resources in labs
  - Plans for modular absorber plate design
    - Allow sharing of absorber w/ just the sensitive gap sheet changes
    - Share DAQ electronics → EM Cal electronics by SNU team
  - EM Cal will be in the beam together

# What do we need to do?

- Should expedite our development efforts to participate in CALICE test beam run
- CALICE looking for volunteer to provide absorber plates
  - ~40 layer design
    - Constructed and Delivered by early 2004
- Each interested party should
  - Come up with the list of items we can do for TB
  - Develop on-board Front End electronics that is compatible to DAQ
    - Need CALICE to provide some test DAQ modules for development
  - Produce sensitive gap detectors to fit into the absorber plate module
- A combined (ANL/NIU/UTA + others) proposal to CALICE in time for their deadlines??
  - DESY PRC in Nov.?
  - French reapplication proposal in Oct.
  - UK in Jan. 2003
  - Etc...