

# Organize Ourselves for the LC

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- The LC R&D issues are a framework for **building teams and frameworks** wherein we take responsibility for own future.
- organize into multi-institutional R&D "consortia", centered at FNAL, SLAC, Cornell.
  - Leverage on our overlap and on lab infrastructure for hardware, communication (and funding?)
  - Cooperative across the groups, coordinated by us, LCSC and Working Groups
  - The important things are efficient, responsible teams and the work to be done: agency boundaries should be transparent
- write focused Proposal(s)
  - Optimized to balance our interests, common strengths, and **LC relevance/convergence**
  - Including significant machine component
    - **The Machine is the Thing!**
  - Submit together in Fall, communicating enthusiasm/resolve of the whole community
- n.b. this is all being invented as we go. The idea is that we can! Your input expected!

# Process at FNAL

- start regular meetings aimed at broad discussion of interests + machine education
- start with EoI, let subgroups nucleate, invent organization, then focus toward Fall
- coordinate w/ SLAC and Cornell !
- our summer dates:
  - 5/30, 6/13, 6/20, Santa Cruz (6/27-30)
  - 7/11, 7/25, 8/8, 8/22, Korea
- possible focus areas
  - NLC structures
  - vibration analysis
  - permanent magnets
  - injectors, FNPL and upgrade
  - beam instrumentation
  - calorimetry/test beam
  - silicon/muons
- reference materials already available
  - Project Lists for NLC, Tesla, Detector exist!
  - talks from the kickoff workshops on the Web

## Yesterday:

1. N.Solyak, FNAL: Overview of NLC & Tesla
2. D. Chakroborty, NIU: Overview of Detector Simulation Issues

## Talks Coming Up:

- P. Bauer, FNAL: Comparison of NLC & Tesla (6/13!)
- M. Velasco, Northwestern: Ground Motion plus Gamma-Gamma prototype (7/11)
- J. Hauptman et al: Bunch by bunch luminosity monitor
- A.White et al: GEM calorimetry
- FNAL silicon detector
- NLC structure engineering/vibration analysis
- Injectors, FNPL, HBPI proposal
- Tesla Job List, Tesla Engineering and Cost Review
- Polarized e-, e+ production, damping rings, SCRF, luminosity
- Continued discussion of "process"

**KEEP IN TOUCH !**

# Nuts and Bolts

- the ultimate funding arrangement is TBD
- there are administrative distinctions between the Cornell/NSF model and the rest-of-us
  - Cornell to be a "center" of NSF funding, a la Muon Collaboration. Building to an MRE.
  - Cornell driving the schedule w/ NSF Fall deadline
  - DoE mechanisms not formulated. Preliminary advice from Mike W. is to consider vehicles like University Program, avoiding new admin. structures..
- various models have different degrees of agency engagement, local autonomy, etc
- LCSC is formed, this should be on their list
- we engage
  - discuss with you today, Cornell asap
  - discuss at future FNAL meetings, inc. LCSC

## Milestones

- SLAC grass-roots tomorrow
- 2 more meetings here in June
- NSF folks: Meet w/ Cornell Sunday in Santa Cruz
- Rest-of-us: Meet w/SLAC folks Sunday in SC
- 4 more meetings here in July/August
- Pull proposal together in August Workshop?
- Submit proposal in Fall!
- Continue here in Fall/Winter with Phase 2