

*Comments
on
Long-term Planning*

Michael S. Zisman
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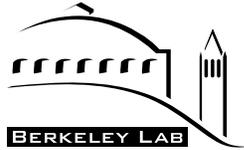
Neutrino Factory and Muon Collider Collaboration Meeting-LBNL
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Long-term Planning



- Decrease in available funding and launching of **MICE** pose challenges for the **MC**
 - MCOG has asked us (Geer, Palmer, MZ) to prepare a 5-year R&D plan and indicate the corresponding funding needs
 - realistic plan should assume “flat-flat” funding
 - optimistic plan could perhaps double our directly funded program
- MCOG wants evidence that we have a plan and that we have (roughly) the wherewithal to follow it
- I have prepared a strawman budget for the realistic case
 - activities lumped into four broad categories
 - **Cooling**: MUCOOL component R&D
 - **Targetry**: development of high power targets and collection systems, including beam tests at BNL, CERN, or elsewhere
 - **System Studies**: work on acceleration, ring coolers, colliders, performance studies
 - **MICE**: purchase or fabrication of MICE components



Long-term Planning



- Summary is

<u>Activity</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Cooling	492	555	555	605	605	605
Targetry	713	650	650	400	400	400
System Studies	195	195	195	195	195	195
MICE	300	300	300	500	500	500
TOTAL	1700	1700	1700	1700	1700	1700

- comments:

- assumes base program funds remain as now: BNL (\$1.0M); Fermilab (\$0.6M); LBNL (\$0.3M)
- assumes we can maintain “extra” \$300K per year for MICE
- priority in FY05-07 is CERN targetry experiment
- allocation of MICE funding depends on what happens with NSF MRI proposal
- split between Cooling and MICE somewhat arbitrary (⇒ flexible)
- must assess realistic Targetry and MUCOOL “out year” needs



Long-term Planning



- Proposed order of discussion
 - Targetry (**H. Kirk**)
 - Simulations/System Studies (**R. Fernow**)
 - MUCOOL (**A. Bross**)
 - MICE (**D. Kaplan**)