

Design & Simulation FY11 Budget Issues

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MAP Technical Board Meeting
1 November 2010

(I) Continue existing base support at BNL and FNAL

(II) New R&D funding requests

1. New Associate Physicist at BNL
work ≥ 0.5 time on rapid cycling synchrotron (RCS) design
~0.75 year
use reprogrammed funds and year-end carryover
no additional cost to MAP in FY11
2. Replace BNL postdoc
work on front end and cooling
 $0.75 \text{ yr} \times \$115\text{K} = \87K
3. New postdoc at FNAL
work on proton driver
 $0.75 \text{ yr} \times \$182\text{K} = \137K
(or 0.5 yr postdoc plus contract to Muons Inc?)
4. Support for Pavel Snopok
work on front end, cooling, collider ring (70%), MICE (30%)
 $0.7 \times \$115\text{K} = \81K
ST would have to pick up other \$34K
where? new commitment to UCR?
5. Support for Tom Roberts
cooling (10%), MAP management (10%), Muons Inc (80%)
6. Support for Nicholai Terentiev
work on MDI physics & detector
other source of funding?
7. Mississippi
work on pathlength correction for RCS (D. Sanders)
\$15K

8. New IIT postdoc

work on 6D experiment design (50%) and MICE systematics (50%)

Is a new person working on the 6D experiment D&S or ST?

~0.75 year

$0.5 \times 0.75 \times \$82\text{K} = \31K

ST would have to pick up other \$31K

9. UCLA

cooling ring studies (Ding, Garren, Cline) \$15K

Li lens studies (Lee) \$25K

pion production studies (Ding) \$10K

40 T final cooling studies (Lederman, Cline) \$20K

open midplane dipole heating studies (Ding) \$10K

total request = \$80K

10. ANL

work on RF breakdown simulations (Z. Insepov)

\$100K

(III) D&S R&D Budget Summary

BNL postdoc	\$87K
FNAL postdoc	137
P. Snopok	81
IIT	31
UCLA	80
Mississippi	15
ANL	100
N. Terentiev	???
T. Roberts	???
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