



# US LHC Accelerator Research Program

*bnl - fnal- lbnl - slac*

## **Supporting R&D plan for FY06 and ...**

LARP Collaboration Meeting,  
Port Jefferson, 4/6/05  
G. Ambrosio



## The beginning of FY06 planning

After the 3<sup>rd</sup> LARP Collaboration Meeting we

- **selected** some **topics** on which we should focus the Supporting R&D for the LARP magnets
- assigned each topic to one or more “**topic leader**” with the goal to:
  - generate their best plan to address each topic
  - aiming at “clear results” (i.e. select/design the mechanical structure based on the goal and not the opposite)
- had several informal meetings and a videoconference to discuss the proposals and generate task sheets.

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|-----------------------------------|---|
| • Long magnet study               | Nicolai Andreev (FNAL), Scott Bartlett (LBNL) |
| • High prestress                  | Nicolai Andreev (FNAL), Paolo Ferracin (LBNL) |
| • End preload                     | Paolo Ferracin (LBNL), Igor Novitsky (FNAL)   |
| • Training studies                | Shlomo Caspi (LBNL), Nicolai Andreev (FNAL)   |
| • Impregnation with rad-hard mat. | Giorgio Ambrosio (FNAL), ...                  |
| • Quench protection studies       | Paolo Ferracin (LBNL), ...                    |
| • R&D for open midplane dipole    | Jesse Schmalze (BNL)                          |



# Agenda

## SUPPORTING R&D

1000 Report from CARE Insulation Meeting	Ambrosio (chair)
1015 Long Magnet Scale-up Meeting Report	Mattafirri
1030 break - 1/2 hr	Ambrosio
1100 Long magnet R&D with racetrack coils	Sabbi
1110 R&D for long W&R coils	Anerella
1120 Tech. dev. for long Nb <sub>3</sub> Sn coils and magnets	Andreev
1135 Tech. dev. with sub-scale quadrupole	Ferracin
1150 Max coil stress with sub-scale coils	Ferracin
1205 – 1230 Discussion	All