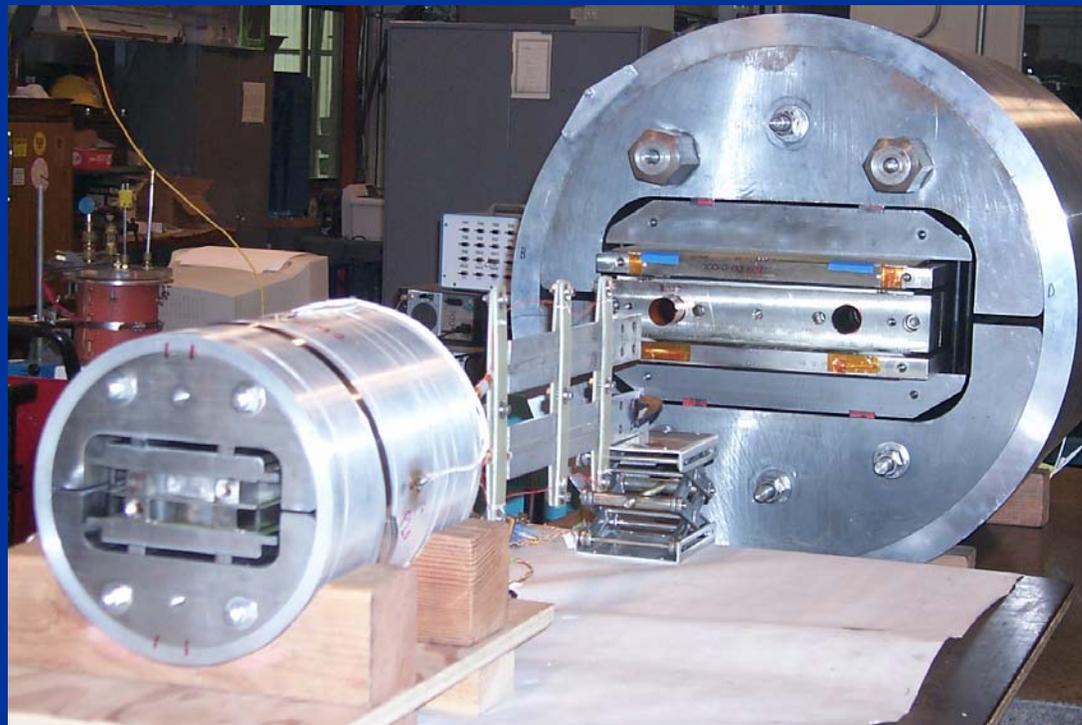




Subscale Race Track Design, Instrumentation, and Fabrication

LBNL-Fermilab
COLLABORATION
MEETING
AUGUST 5-6 2003



BERKELEY LAB

Superconducting Magnet Program



Subscale Loading Structure

1/3 Scale Shell
& Iron Yokes





1/3 Scale Winding Procedure

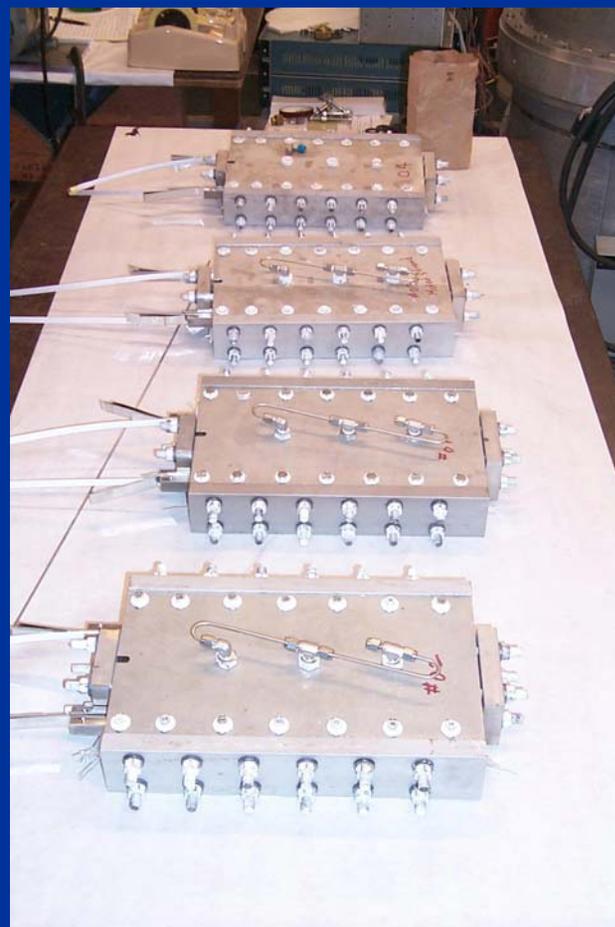
1/3 Scale
Winding First
Turn & Ramp





1/3 Scale Reaction Tooling

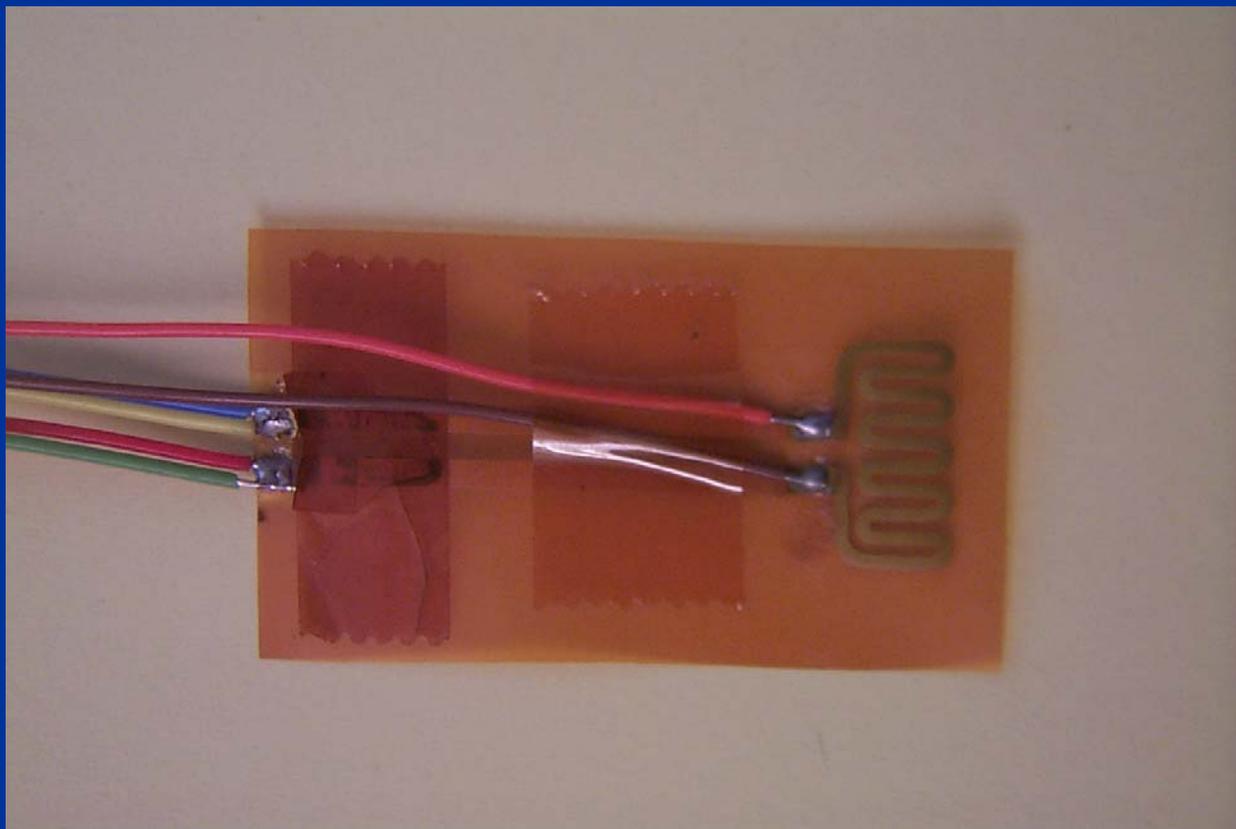
Coils in Reaction
Tooling Ready For
Heat Treatment





1/3 Scale Instrumentation

Subscale
Spot Heater





1/3 Scale Potting Tooling Improvements Potting Fixture

The tooling was reworked to include temperature sensors and heaters.

This Improvement allows the coils to stay in the vacuum vessel at atmosphere for curing.

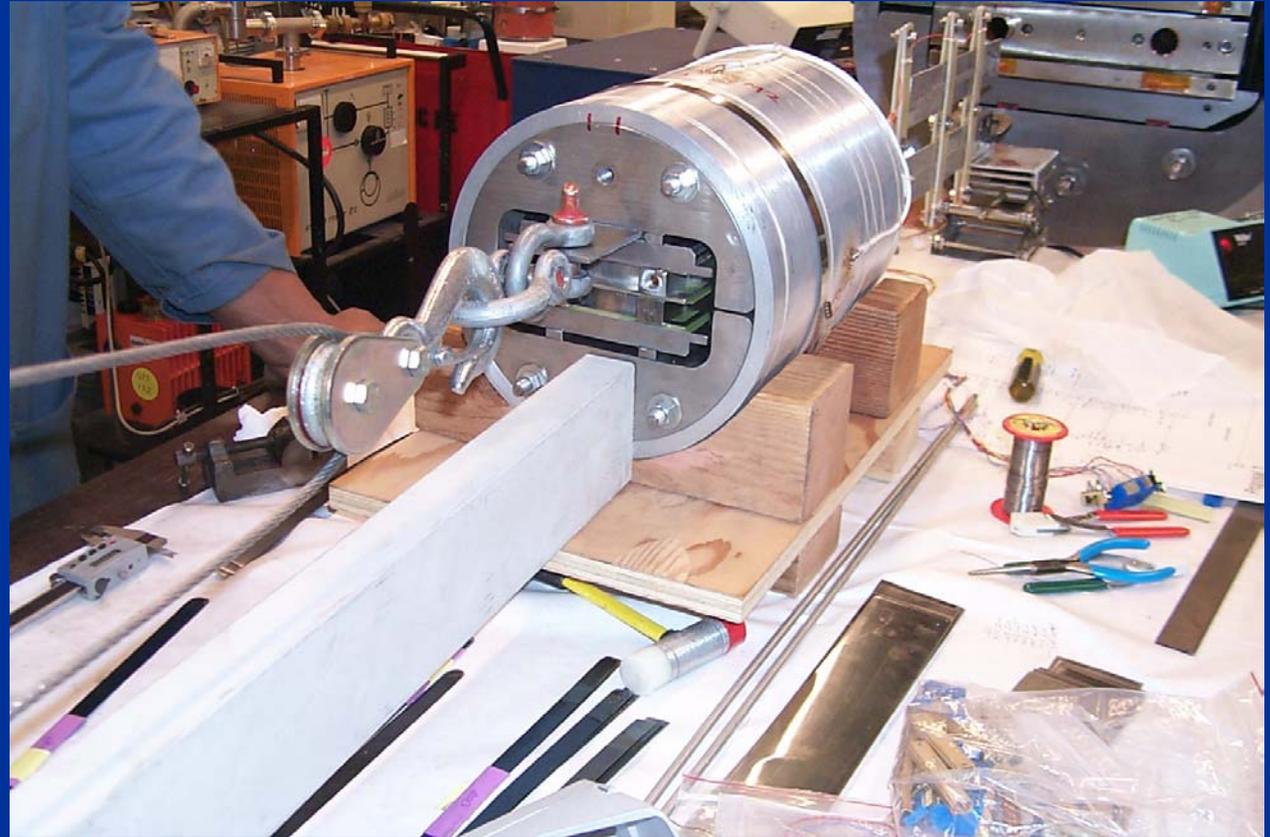
The epoxy reservoir stays at room temp allowing backfilling of the epoxy during curing.





1/3 Scale Key & Bladder Procedure

1/3 Scale Final
Assembly



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15" Cryostat Header & Magnet

Subscale Magnet Ready
For Insertion Into Cryostat



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