



# Meeting Wrap-Up

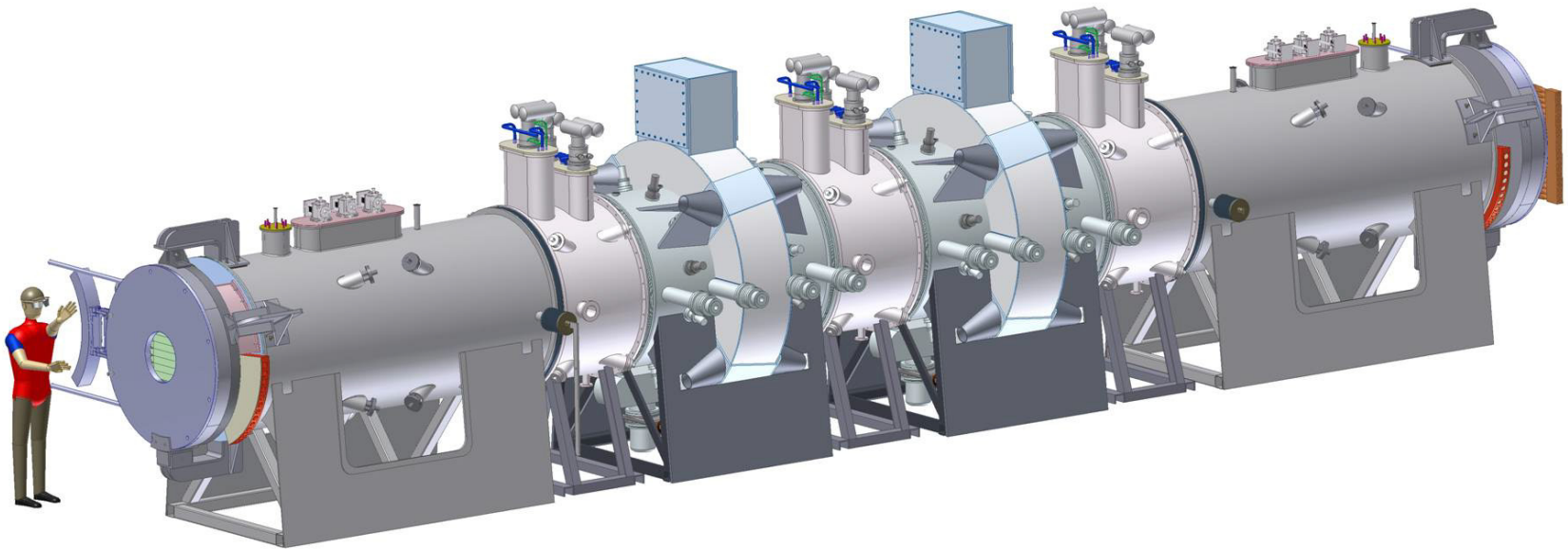
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NFMCC Collaboration Meeting

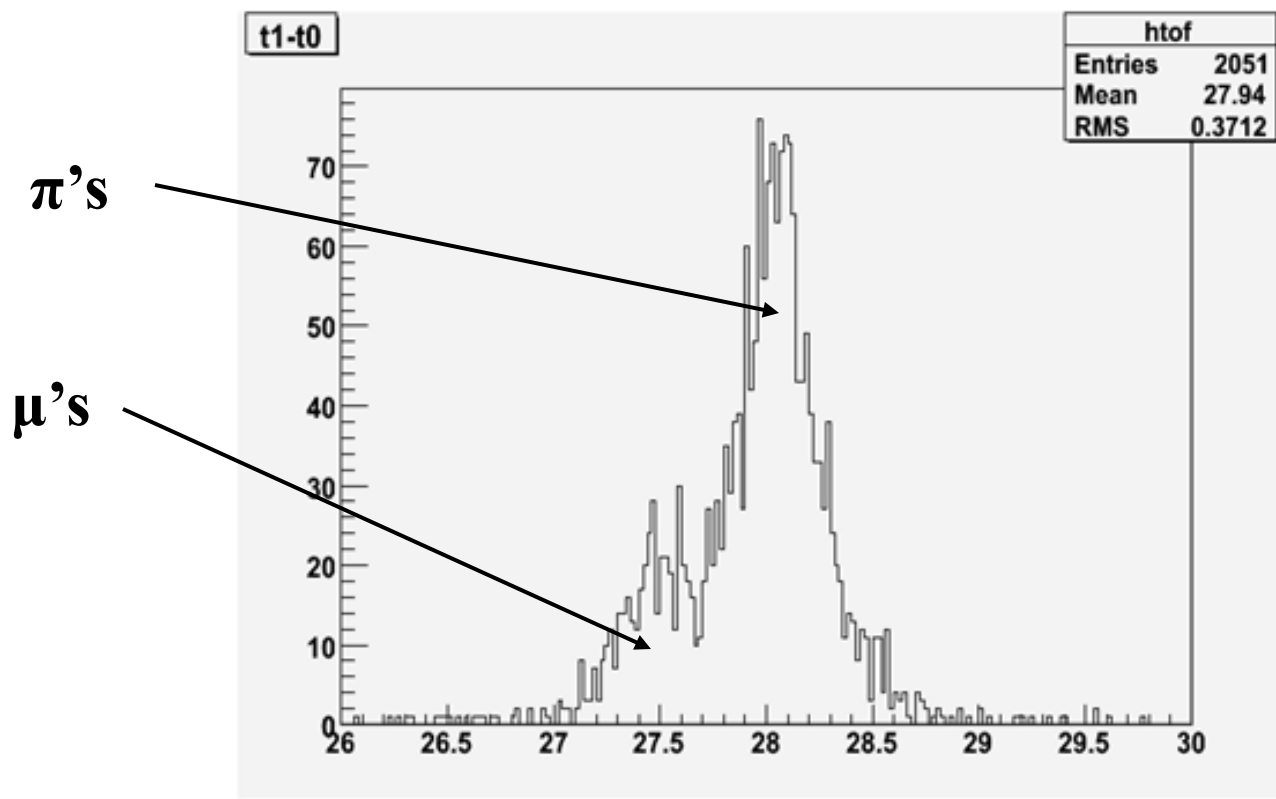
Lawrence Berkeley National Laboratory

January 25-28, 2009

# MICE



# First Muons!



TOF1 – TOF0, ns



# Problems

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**Internal target breaks!**

**Tracking solenoids delivery delays**

**Decay Solenoid needs work**

**Coupling Coil—May your lives be interesting!**

**And an overriding question—will the rf cavities deliver the desired gradient with the magnetic fields.**



# The MTA

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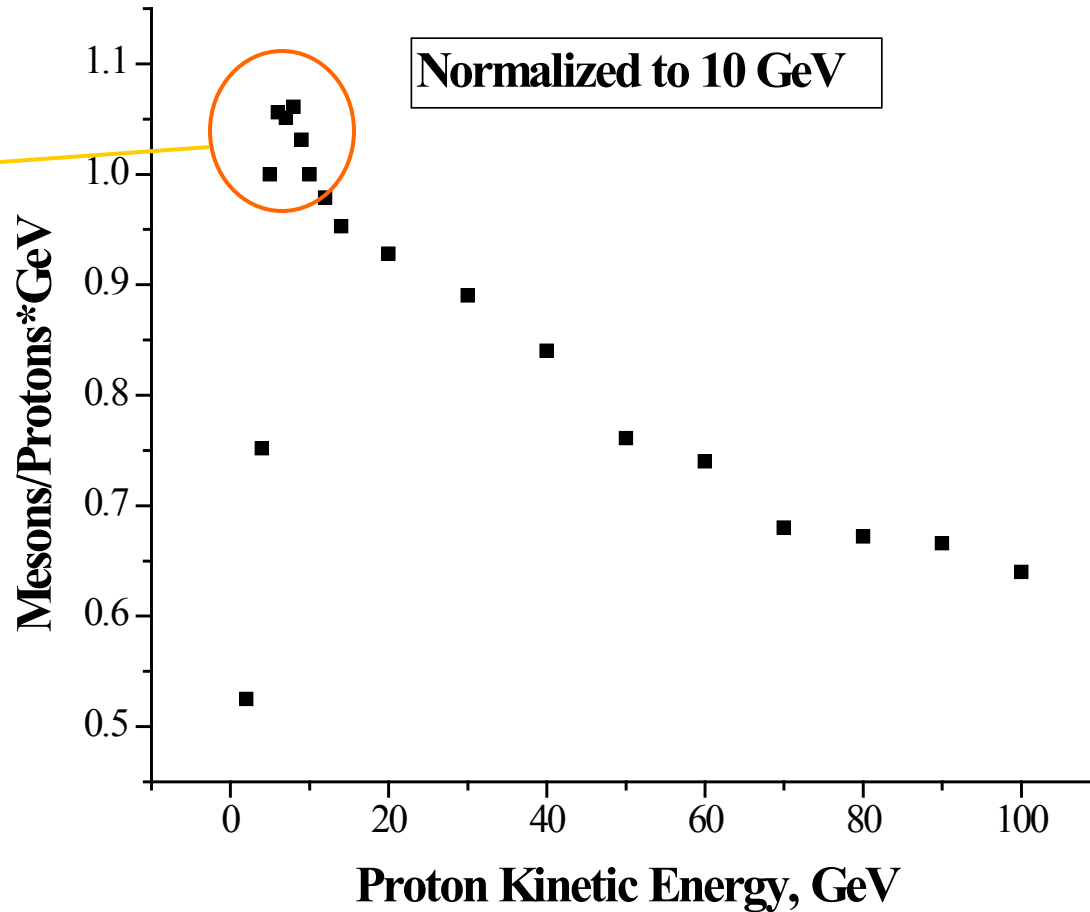
**First Beam – To External Beam Stop**

**First Beam into Hall before end of 2009.**

**High priority—Beam into High Pressure RF cavity.**

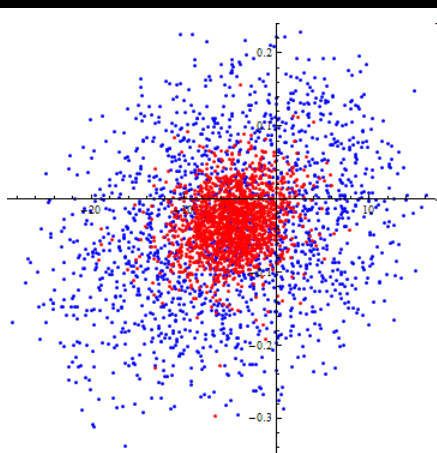
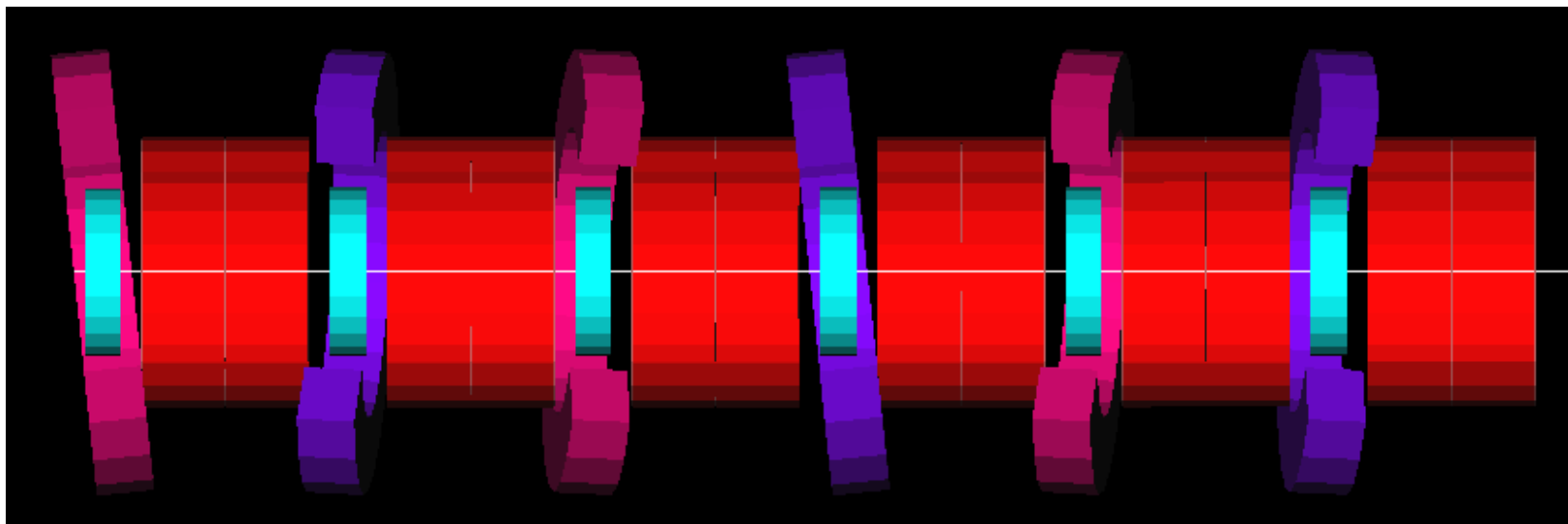
# Soft Meson Production Efficiencies

Yield at 5Gev  
same as 10 GeV  
Peak yield at  
6,7,8 GeV

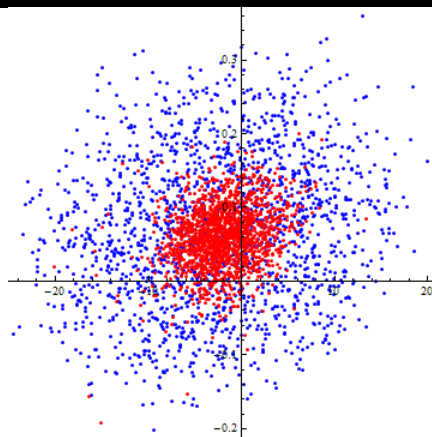


X. Ding, UCLA

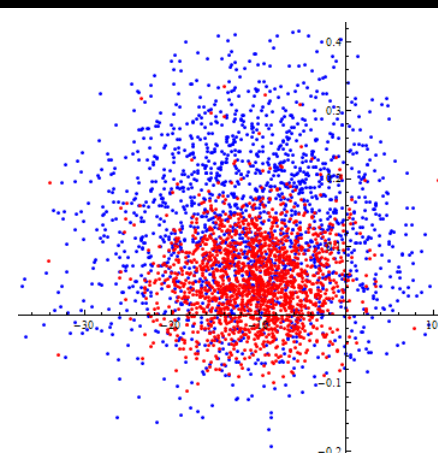
# The Helical Snake



$X-P_x$



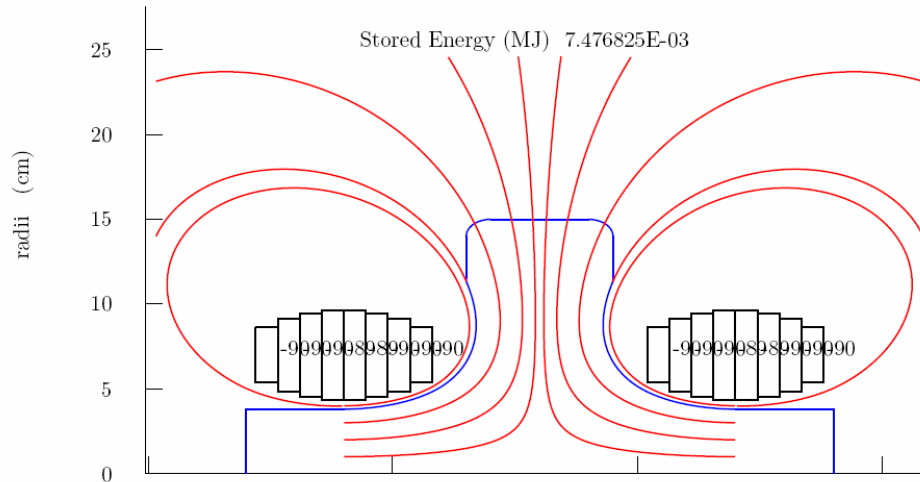
$Y-P_y$



$t-dp$

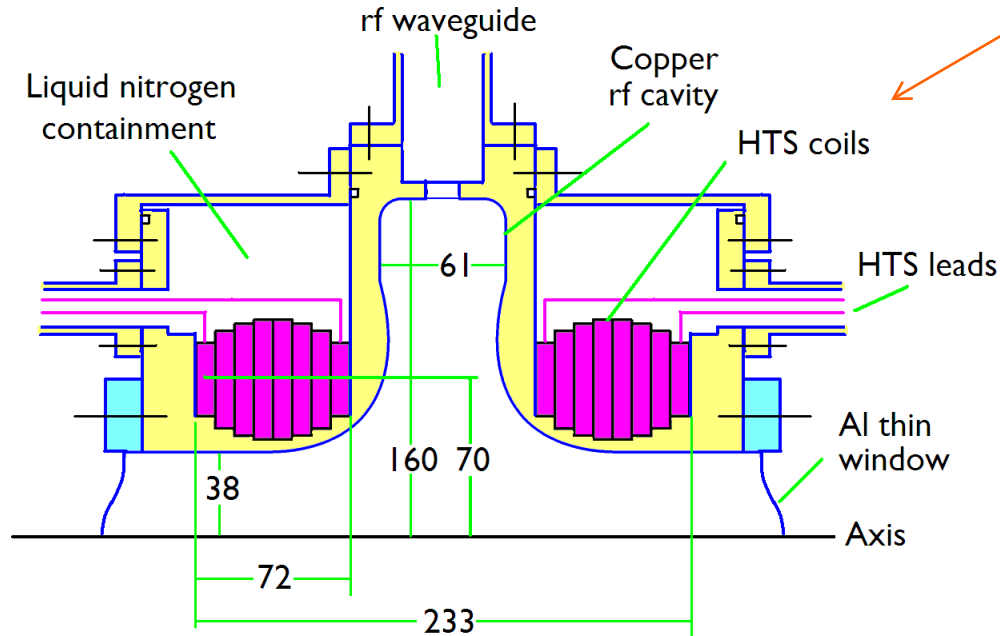
# A Possible Magnetic Insulated Cavity Experiment

Simplified Configuration



Palmer and Stratakis

Experimental Configuration

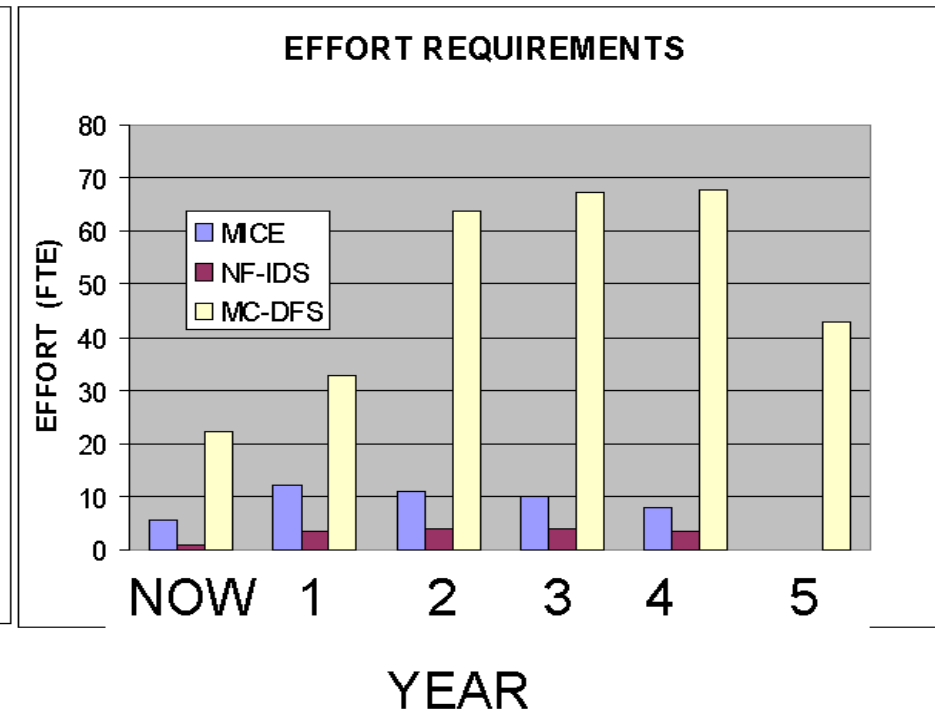
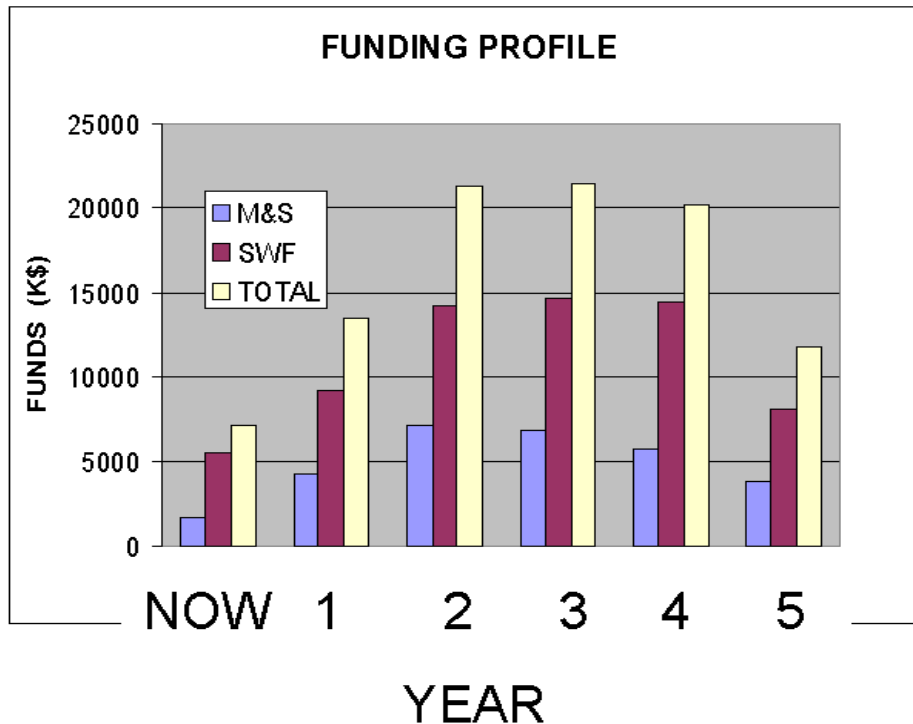


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# The 5-Year Plan

**Key Goal—Delivery of a Muon Collider Feasibility Study by 2013.**





# Finally

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**Thank you to:**

**Wes Tabler**

**Martha Condon**

**Derun Li**

**Scott Berg**

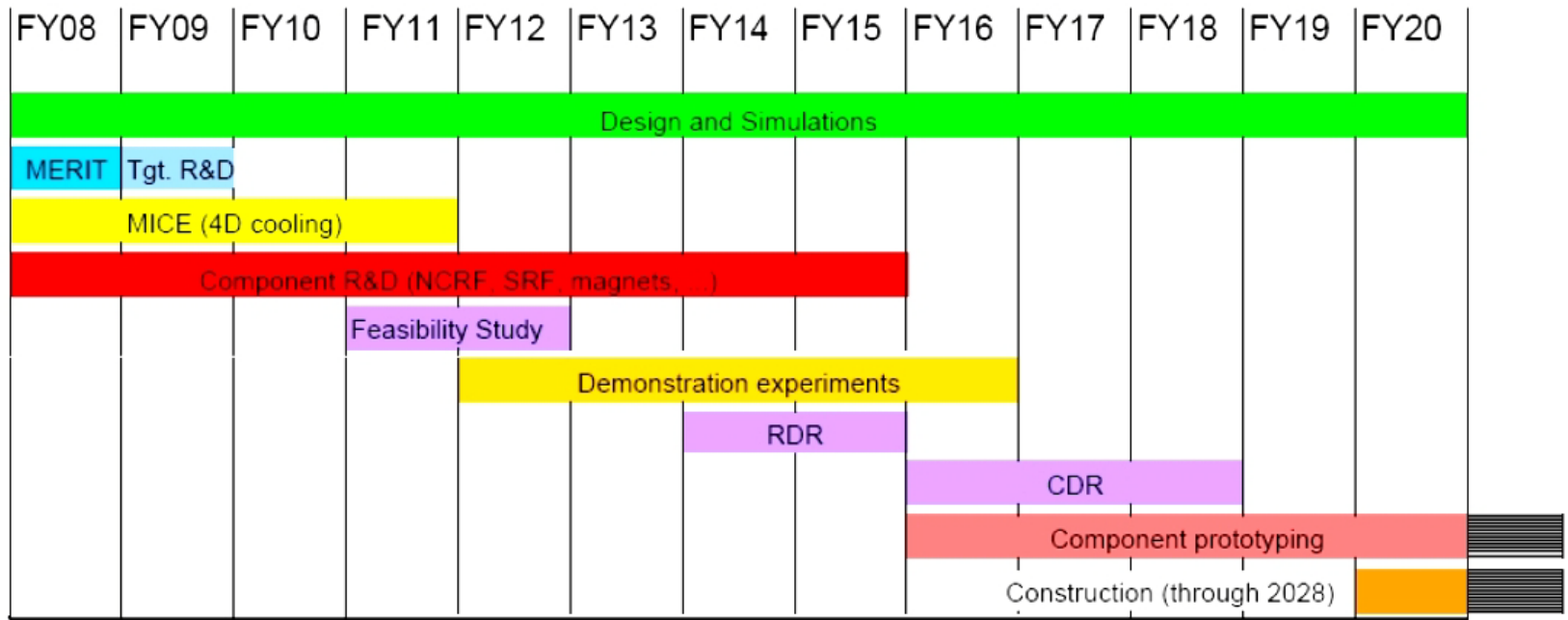
**And of course— Mike!**



# Backup Slides

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# Palmer's P5 Presentation



▲ CD-0

▲ Choice of staged or direct path

8	11	13	20	25	25	25	35	40	40	R&D Funds M\$/year
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- Funding request includes that for Neutrino Factory R&D
- Funding increase ( $\approx 3\times$ ) needed if Muon Collider is to be credible option by 2012

# The Long-Term Vision

