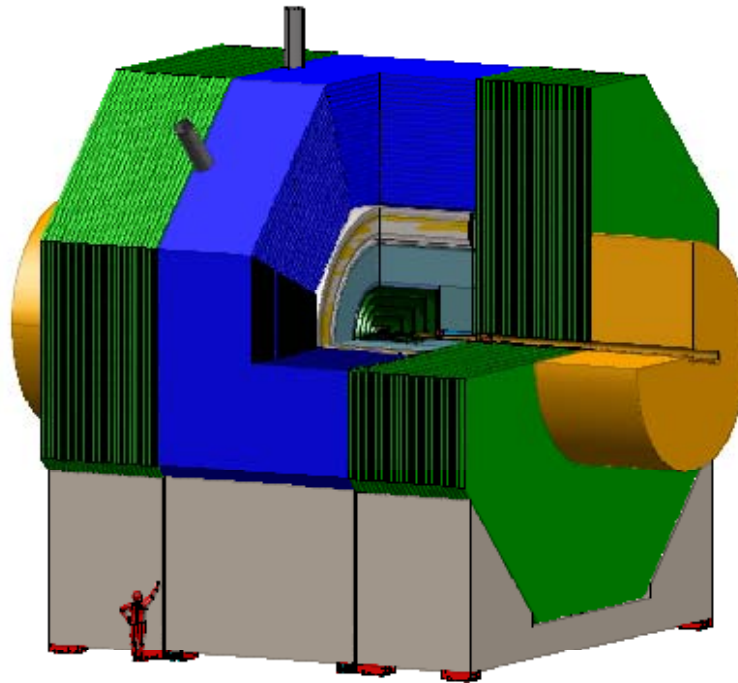




# SiD Engineering Status and Plans

Kurt Krempetz





# SiD Engineering Group

## Engineers

- ANL
  - Victor Guarino→Hcal
- FNAL
  - Bob Wands→FEA
  - Joe Howell
  - Kurt Krempetz→Integration
  - Walter Jaskierny→Solenoid Electrical
- PSL
  - Farshid Feyzi→Muon Steel
- SLAC
  - Jim Krebs→EndDoors
  - Marco Oriunno→Ecal
  - Wes Craddock→Solenoid
- RAL
  - Andy Nichols→Tracking

## Physicists

Bill Cooper

Marty Breidenbach  
Tom Markiewicz

Phil Burrows



# Plans/Schedule-Now

10/07 to 2/08

- Identify liaison from each Sub-detector group to work closely with SiD Engineering group.
- Understand and refine the DOD SiD starting point.
- Define the sub-detector space and parameters(Global Parameters)
  - Sub-detector modules-weight/size/cables/utilities/dead space
  - Sub-detector assemblies-clearances/dead space
  - Sub-detector assembly supports
- Create Control Board/Committee
- Create engineering drawing/database



## Plans/Schedule-Spring

2/08 to 5/08

- Complete conceptual design of the sub-detector
- Define how the detector opens/closes
- Define detector assembly/maintenance Plans
- Define parameters for simulation work
- Develop cost estimates and create BOE's.
- Require change control



## Plans/Schedule-Summer

5/08 to 9/08

- Assist with LOI
- Complete unfinished tasks
- Start the physic/engineering iteration process



## Plans/Schedule-Beyond the LOI

- Start working on the EDR.
- Write up specifications for long lead items.
  - IR Hall
  - Solenoid
  - Iron Flux Return
  - Tungsten Plate



# IR Workshop Summary

- Most of the Detector Assembled at Surface
- Push-Pull Scenario
- 18m Diameter Shaft for each Detector
- Weight to be lower down shaft → TBD
- 2-100 ton cranes in IR Hall
- 23m crane travel in IR Hall
  - IR Hall width ~25m if one includes alcoves