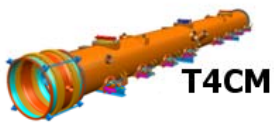
Type 4 Cryomodule Collaboration Workshop

- Welcome to our 4th engineering workshop
- Our Focus:
  - Establish and publish the T4CM design intent. (Why are we building this cryomodule?)
  - Freeze the 3-D design.
  - Walk through all of the sub-assemblies and come to an agreement on the design. (Is it fine now, or does it need a modification?)
- Wed-Thurs: Sub-assembly discussions
- Friday: Working sessions

Agenda

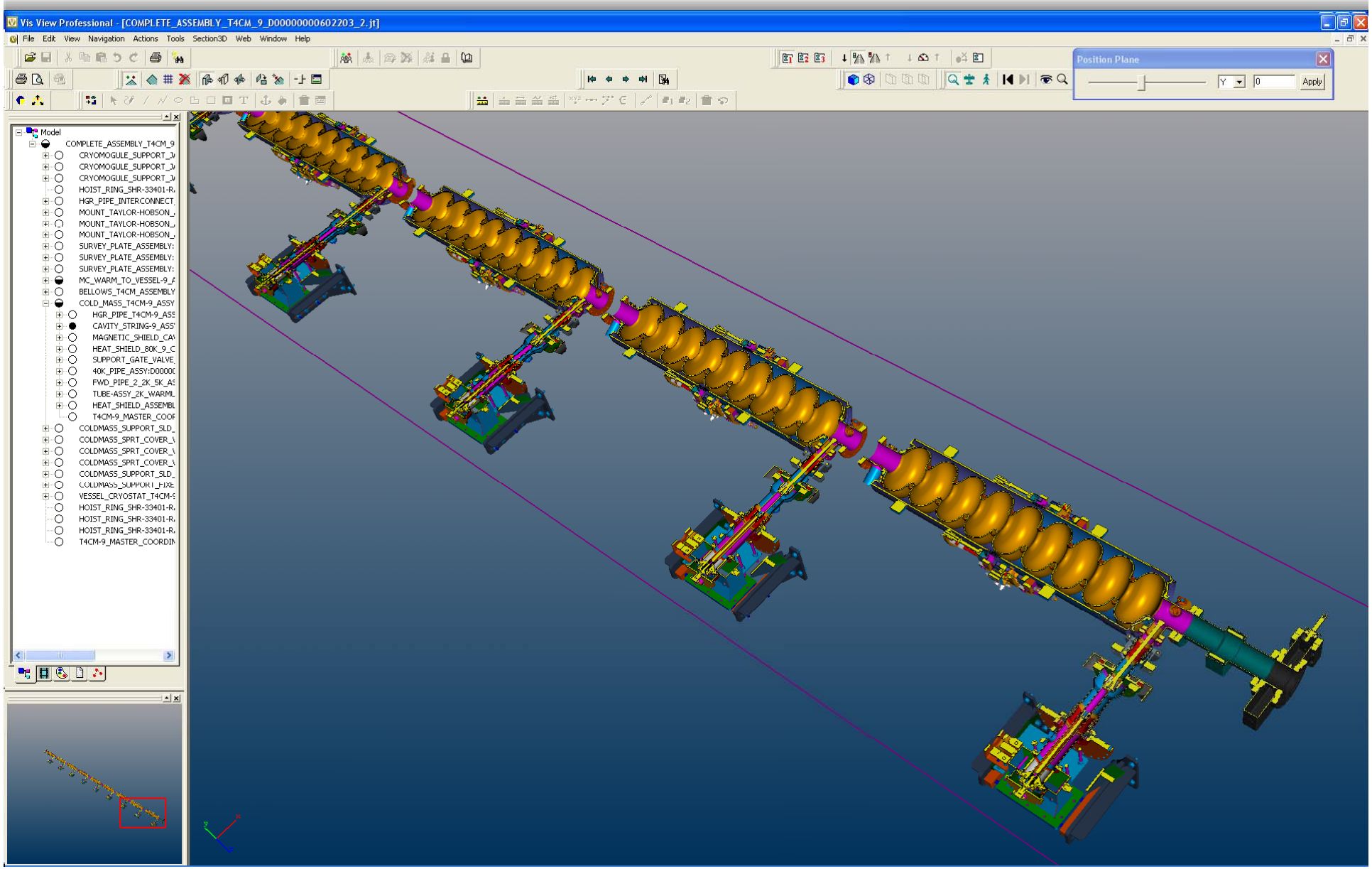


T4CM Engineering Workshop Agenda

Fermilab

Wednesday, 18 July, 2007 (ICB, 2nd floor, Hermitage)	
8:45 am to 9:00 am	Arrival: FNAL, Hermitage Conference Room, Technical Division, ICB-2nd floor
9:00 am to 9:15 am	Welcoming comments, Agenda & focus - Mitchell
9:15 am to 10:00 am	Cryomodule design status – Orlov
10:00 am to 10:15 am	Cavity design status – Mitchell / Pagani
10:15 am to 10:30 am	Break
10:30 am to 11:00 am	Cavity interconnect bellows and flanges – Bedeschi
11:00 am to 12:00 pm	Helium vessel design & future possibilities – Grimm
12:00 pm to 1:30 pm	Lunch
1:30 pm to 2:00 pm	Bi-metallic transitions – INFN, Pisa (probably not used on T4CM)
2:00 pm to 2:45 pm	Blade tuner & Slim tuner – INFN, Milan
2:45 pm to 3:15 pm	Magnetic Shielding, external - Grimm
3:15 pm to 5:00 pm	Tours of CAF, ICB High Bay, Meson Detector Building
Thursday, 19 July, 2007 (Wilson Hall, 10th Floor, Hornet's Nest)	
9:00 am to 9:30 am	BPM Development and status – Mitchell for Manfred Wendt
9:30 am to 10:00 am	Quad / Steering magnet development – Vladimir Kashikan
10:00 am to 10:30 am	Cavity String layout – Mitchell / Orlov
10:30 am to 10:45 am	Break
10:45 am to 11:15 am	KEK Internal Magnetic Shielding – Ohuchi
11:15 am to 12:00 pm	HGRP design and fabrication – Orlov / Grimm / Barbanotti
12:00 pm to 1:00 pm	Lunch
1:00 pm to 1:15 pm	Needle bearings & alignment tolerances – Mitchell
1:15 pm to 2:00 pm	Heat shields – Orlov
2:00 pm to 2:30 pm	Vacuum Vessel – Orlov
2:30 pm to 3:00 pm	Vibration studies – McGee (FNAL)
3:00 pm to 3:15 pm	Break
3:15 pm to 4:00 pm	Vibration studies – Basti (INFN, Pisa)

The Type 4 Cryomodule (T4CM)



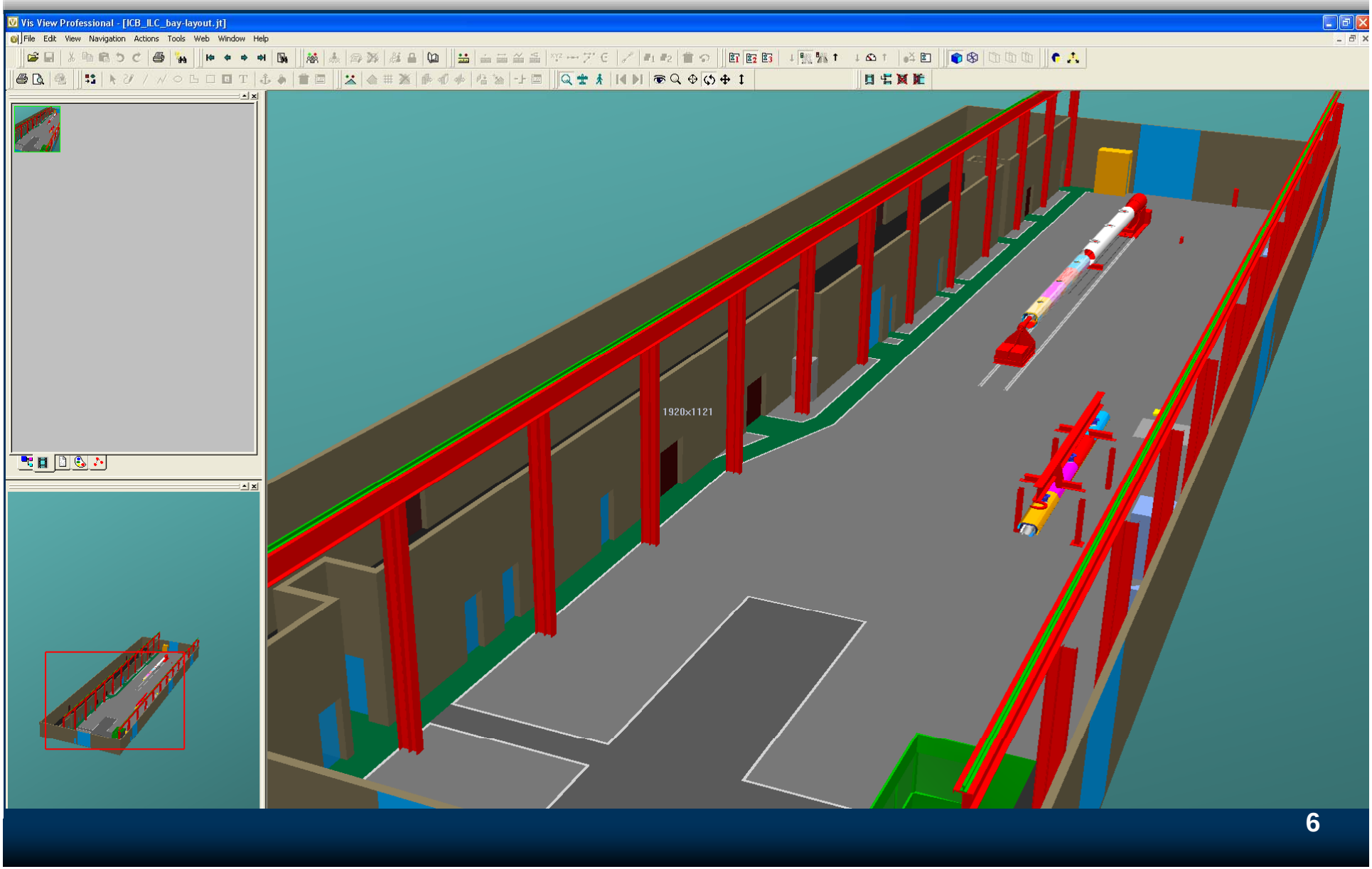
More than just a design!

- We are creating a T4CM design but at the same time, we are building a team and a process.
  - Sharing data across the world with EDMS
  - Collaborating with tools such as VisView and WebEx
  - Creating complete and accurate 3-D models
  - Providing training and guidance to our members
- This is not easy to do. However, it is critical that we succeed. The ILC program must learn how to work as a real collaboration in real time.
- We have been pioneering tools and techniques to make this a reality.

Our tools

- I-DEAS 3-D, 2-D, and FEA
- UGNX 3-D and 2-D
- Ansys FEA
- PDF file creation for 2-D drawing viewing (Adobe Acrobat 3-D coming soon)
- VisView for 3-D model viewing and on-line collaboration
- WebEx for real-time user support from DESY

A Small Demo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