

A detailed 3D CAD model of an ILC cryomodule and cavity coordinate systems. The model shows a long, cylindrical cryomodule with various components, including a large red ring at the front end, and a complex assembly of pipes and mechanical parts. The text "Standardized Coordinate Systems" is overlaid in green, and "ILC Cryomodule and Cavity Coordinate Systems" is overlaid in black.

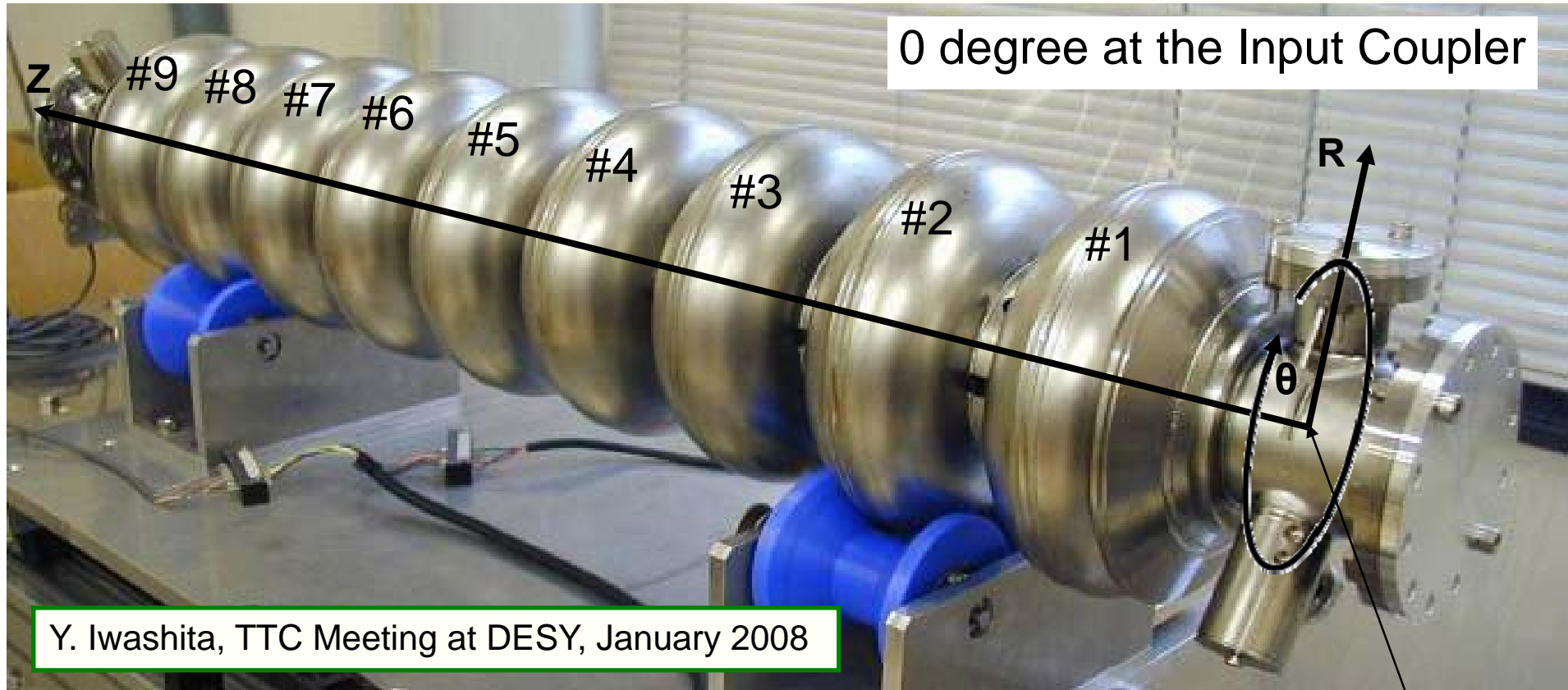
Standardized Coordinate Systems

**ILC Cryomodule and Cavity
Coordinate Systems**

proposed by Don Mitchell,
Fermilab, 25 NOV 2008



Global Cavity Coordinate System

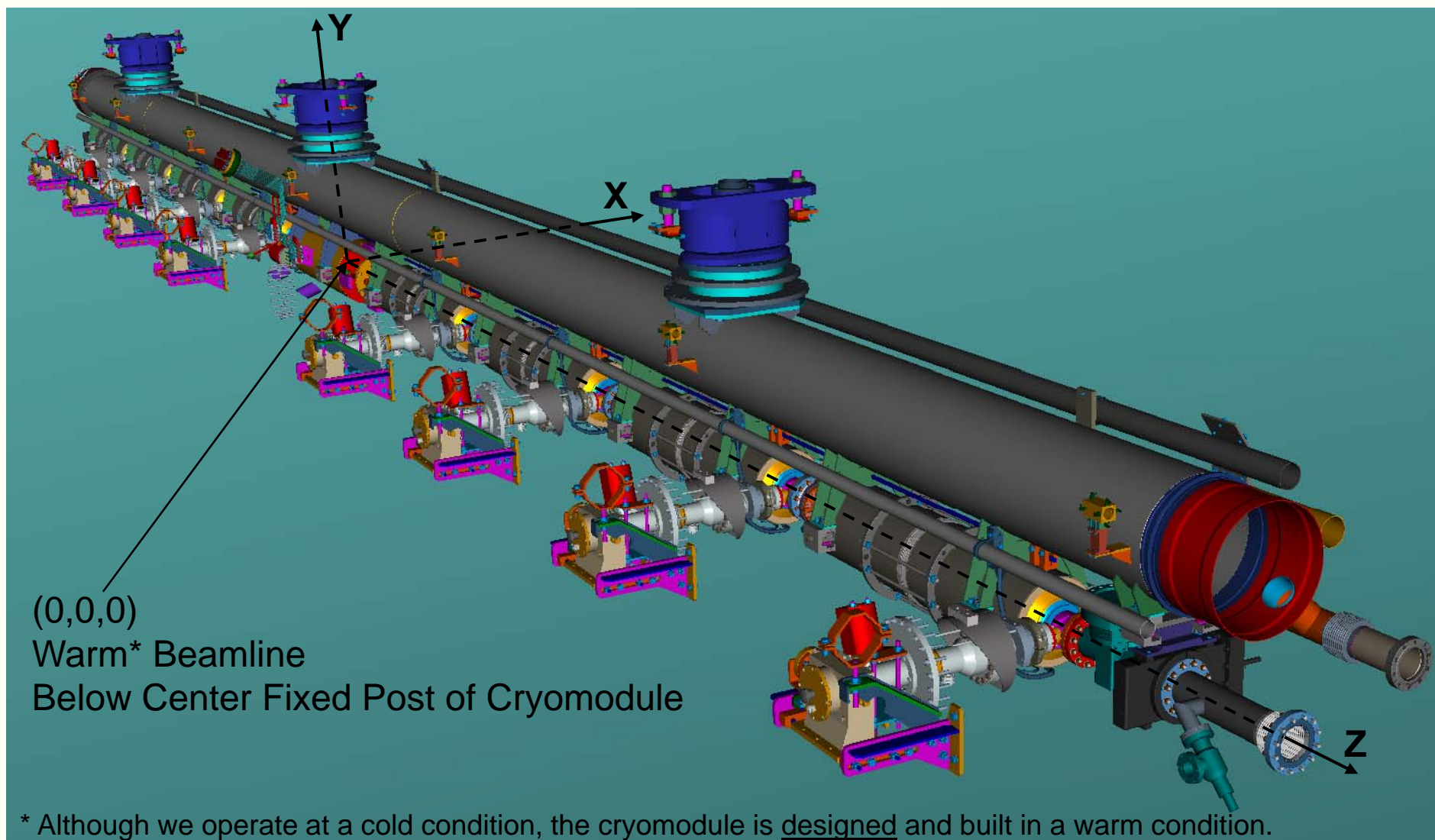


Y. Iwashita, TTC Meeting at DESY, January 2008

- Common cylindrical coordinate system for the cavities.
- Most of the ILC baseline-shaped cavities use this C.S.

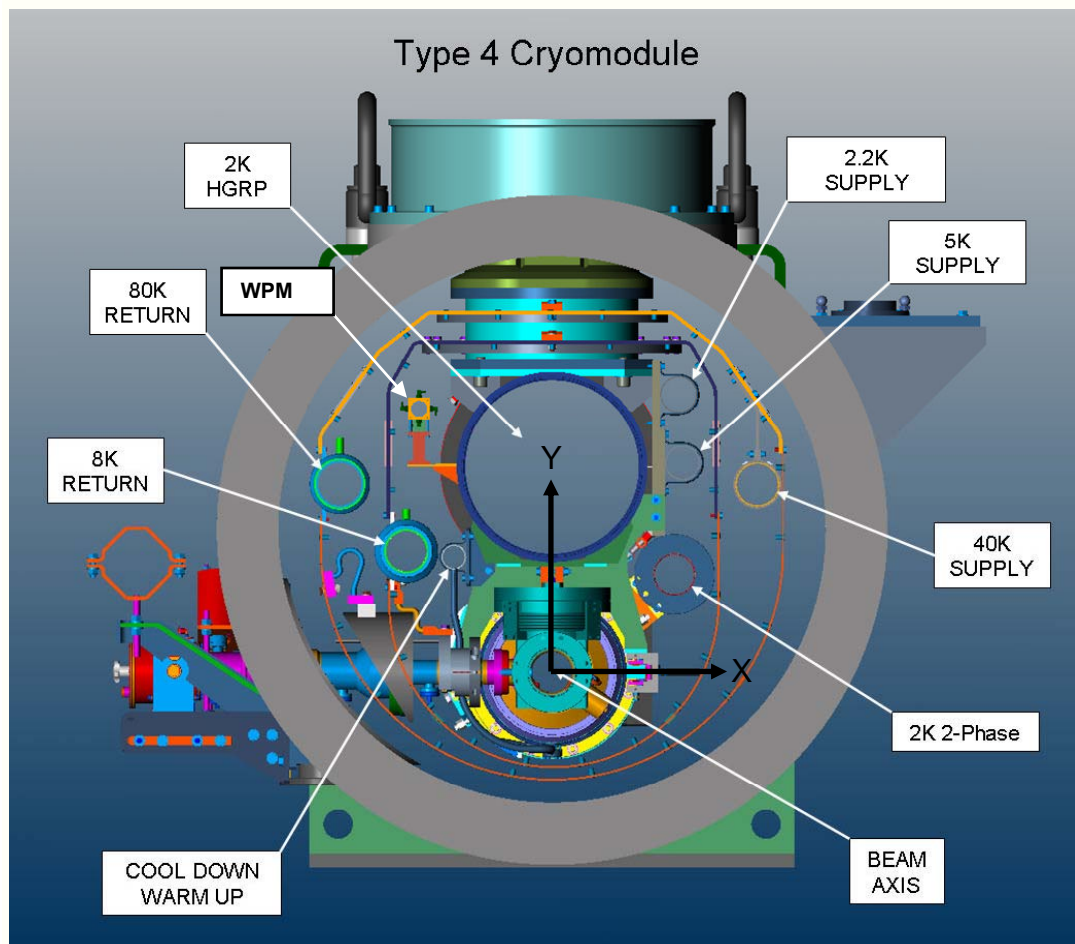


Global Cryomodule C.S.





Global Cryomodule C.S. data



T4CM Data

Cryo Pipe Locations	X (warm)	Y (warm)
Beam Axis	0	0
Supply - 2.2K	219	481.5
Supply - 5K	225.5	362.5
Supply - 40K	355	325.00
Cool down - Warm up	-170	200.00
Return - 8K	-252	210.00
Return - 80K	-367	326.00
WPM	-230	485.50
2-Phase - 2K	210.61	170.55
HGRP - 2K	0.00	356.00