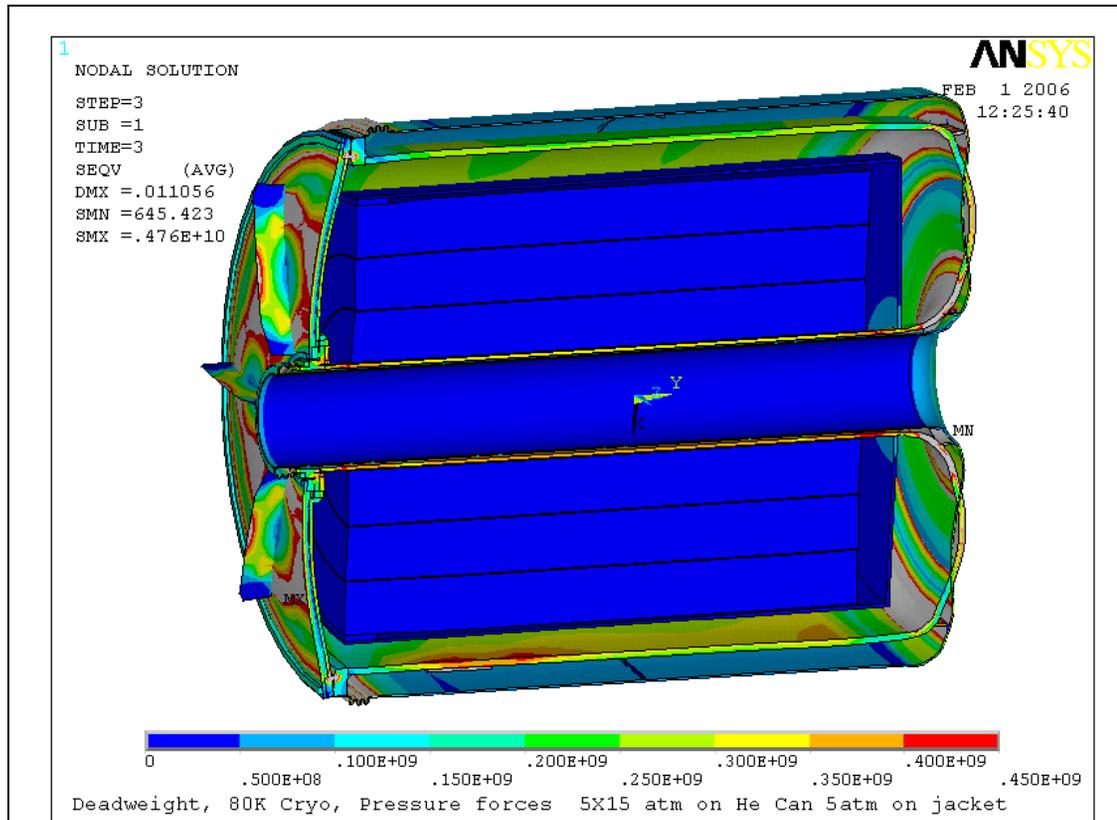


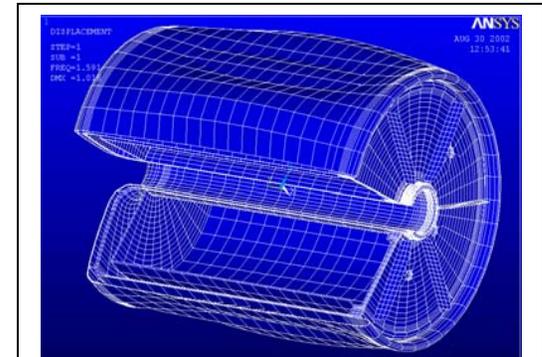
Vacuum Jacket Buckling:

1mm thick vacuum jacket only had a margin of 1.5 against buckling. A factor of 5 is needed.

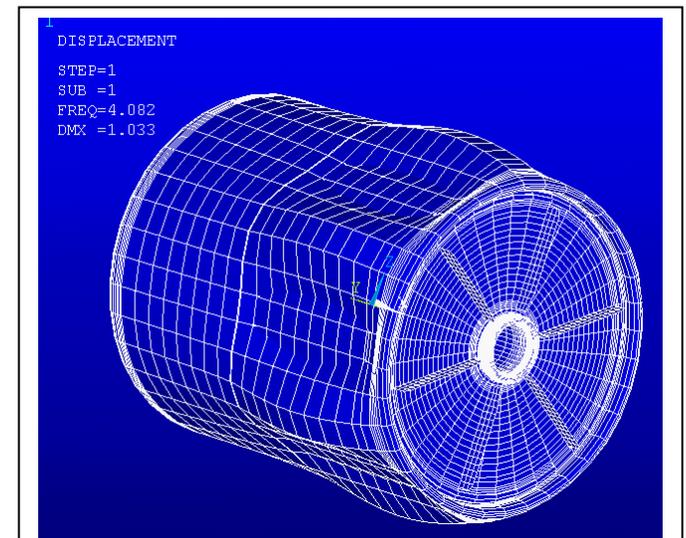
The outer vacuum jacket was thickened to 4.7mm



Large Displacement Analysis with 5 time the Design Pressures was Bounded.
- With As-Build Thicknesses, No Elastic Collapse Mode was Found.



Eigenvalue Buckling Analysis, Load vector is 15 atm on cryostat and 1 atm on vacuum jacket. Analysis includes Thermal strains and pressure loads.



Factor against buckling is 4.08 with mid span stiffener. – The Shell was Thickened Instead