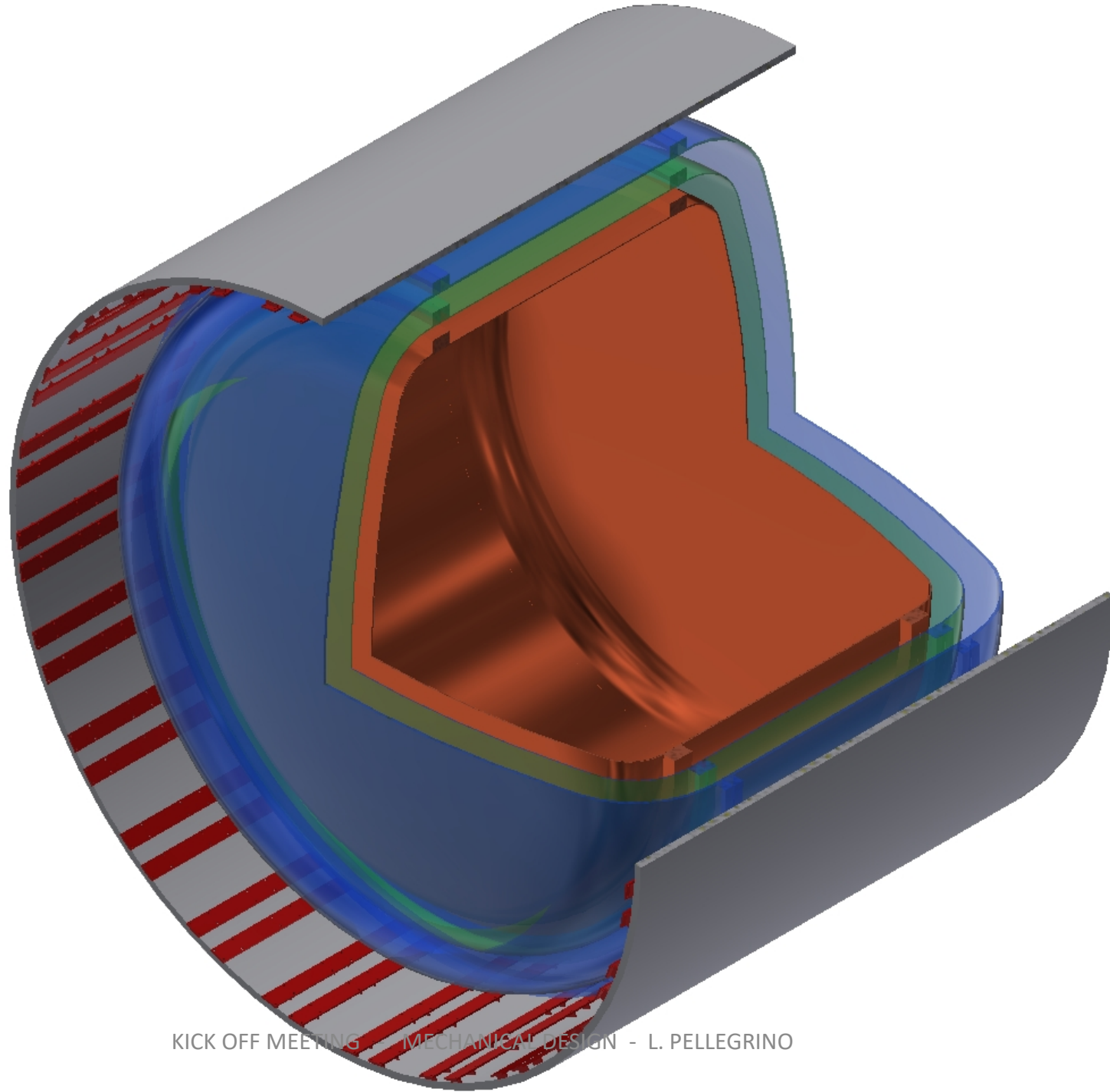
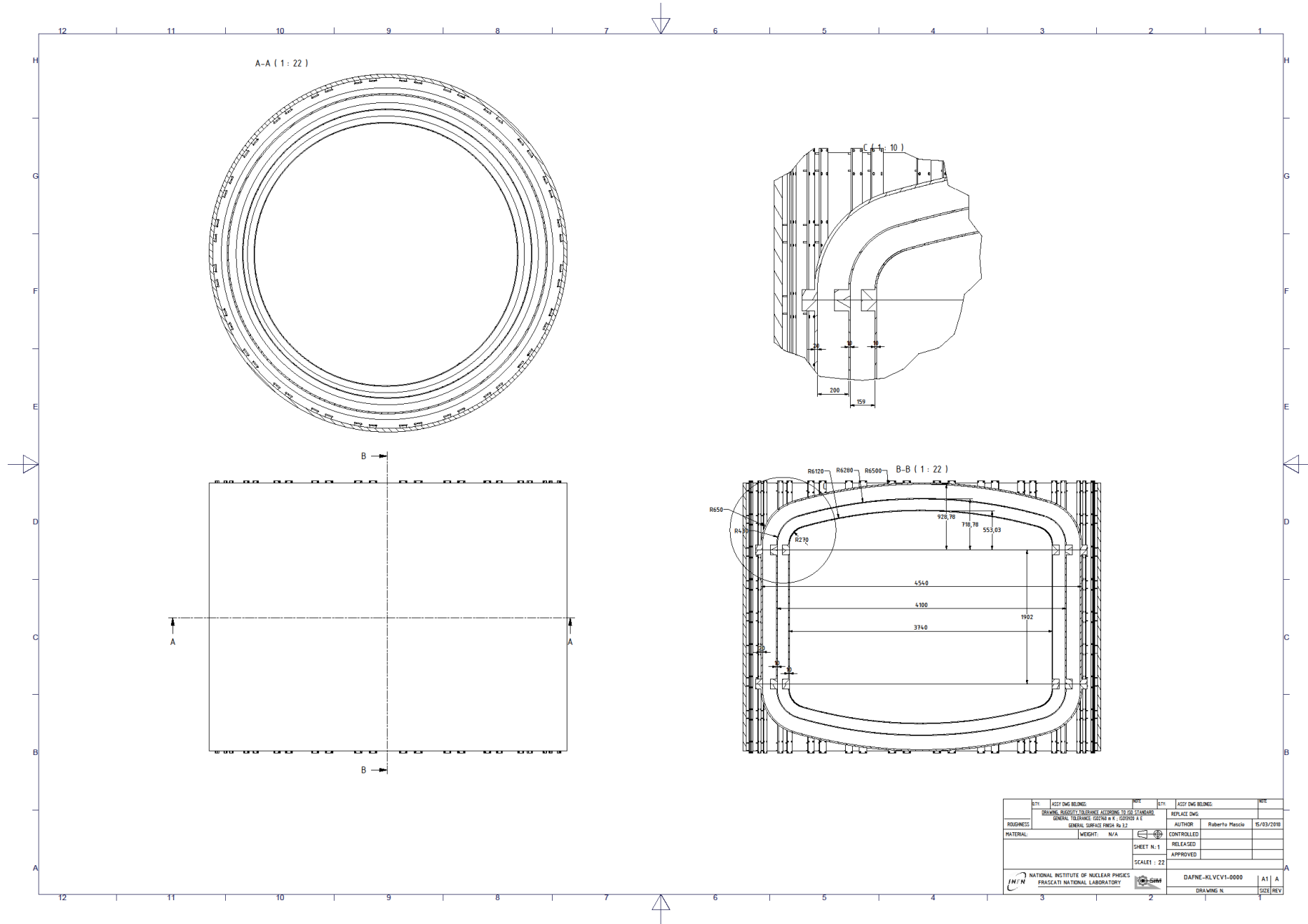


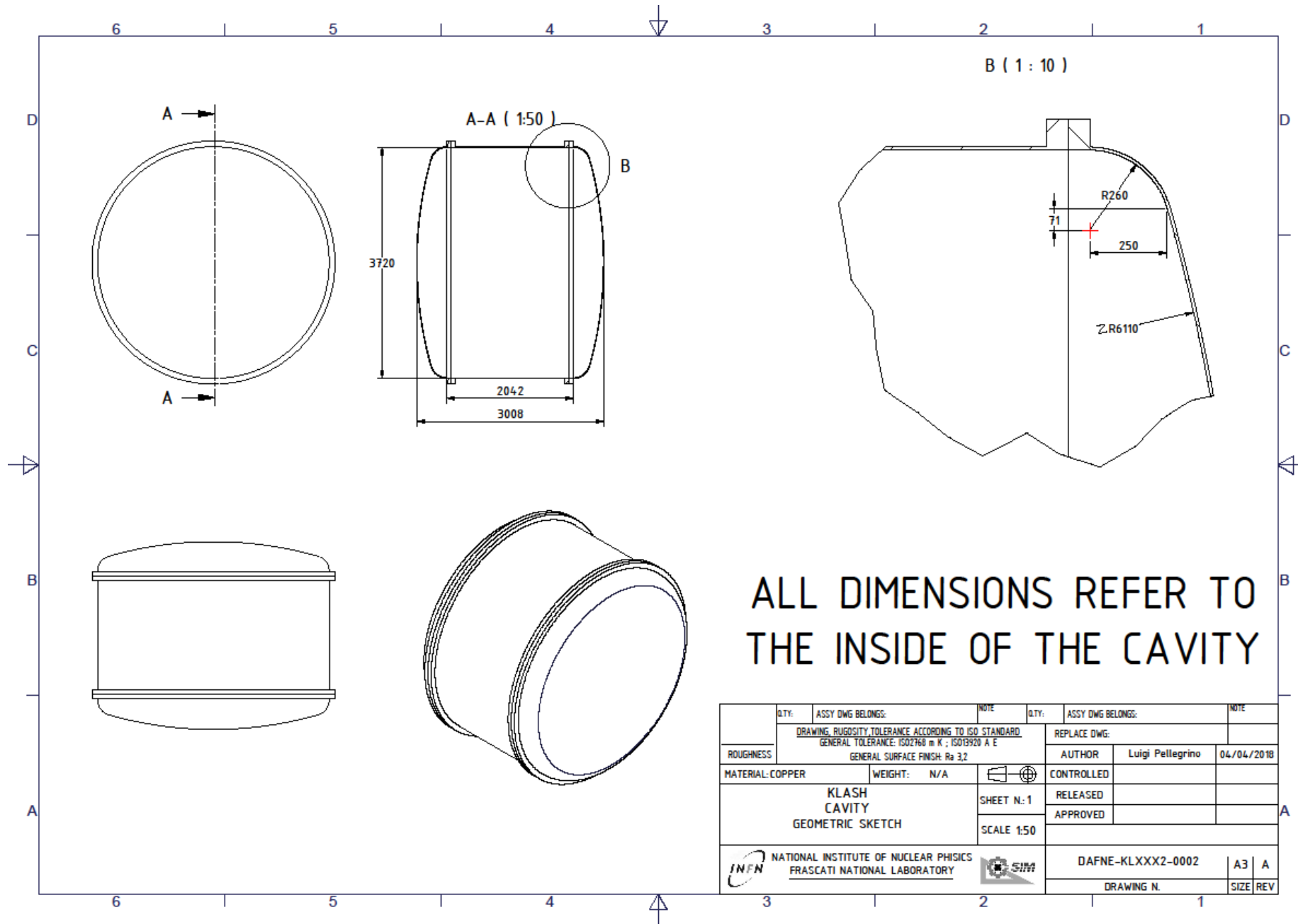
KLASH MECHANICAL DESIGN

KICK OFF MEETING
LUIGI PELLEGRINO



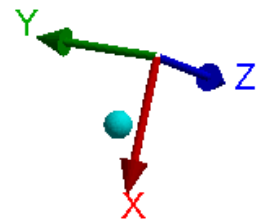
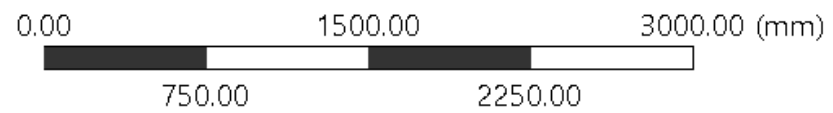
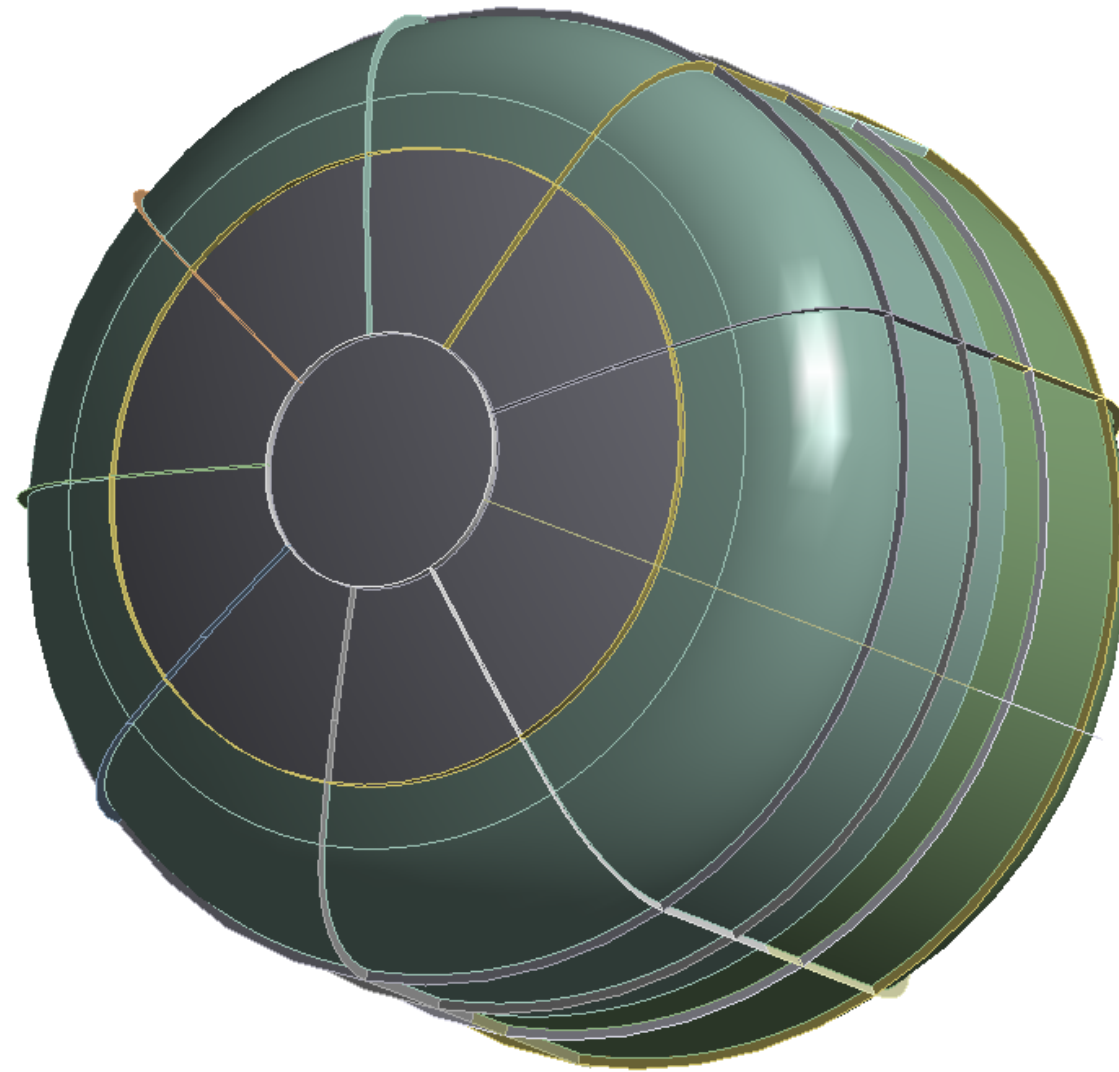


QTY:	ASSY DWG BELONG:	NOTE:	QTY:	ASSY DWG BELONG:	NOTE:
DRAWING, PRECISION TOLERANCE ACCORDING TO ISO STANDARD		REPLACE DWG			
GENERAL SURFACE FINISH: Ra 3.2		AUTHOR: Roberto Mascio 15/03/2018			
ROUGHNESS:	WEIGHT: N/A	CONTROLLED			
MATERIAL:		SHEET N. 1		RELEASED	
		SCALE: 1:22		APPROVED	
NATIONAL INSTITUTE OF NUCLEAR PHYSICS FRASCATI NATIONAL LABORATORY				DAFNE-KLVCV1-0000 A1 A DRAWING N. SIZE REV	



Geometry

01/06/2018 16:11



30/11/2018

KICK OFF MEETING - MECHANICAL DESIGN - L. PELLEGRINO

C: Eigenvalue Buckling

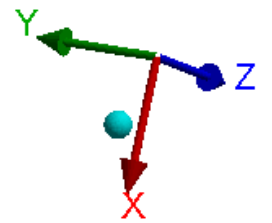
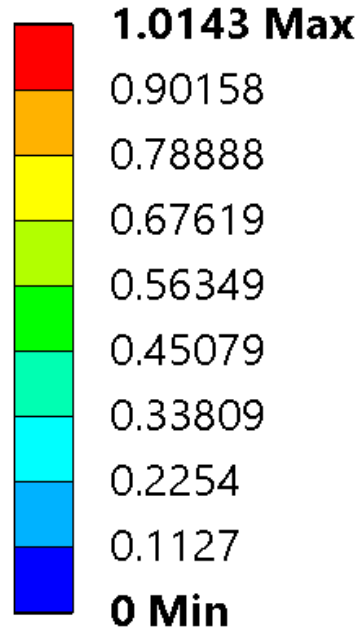
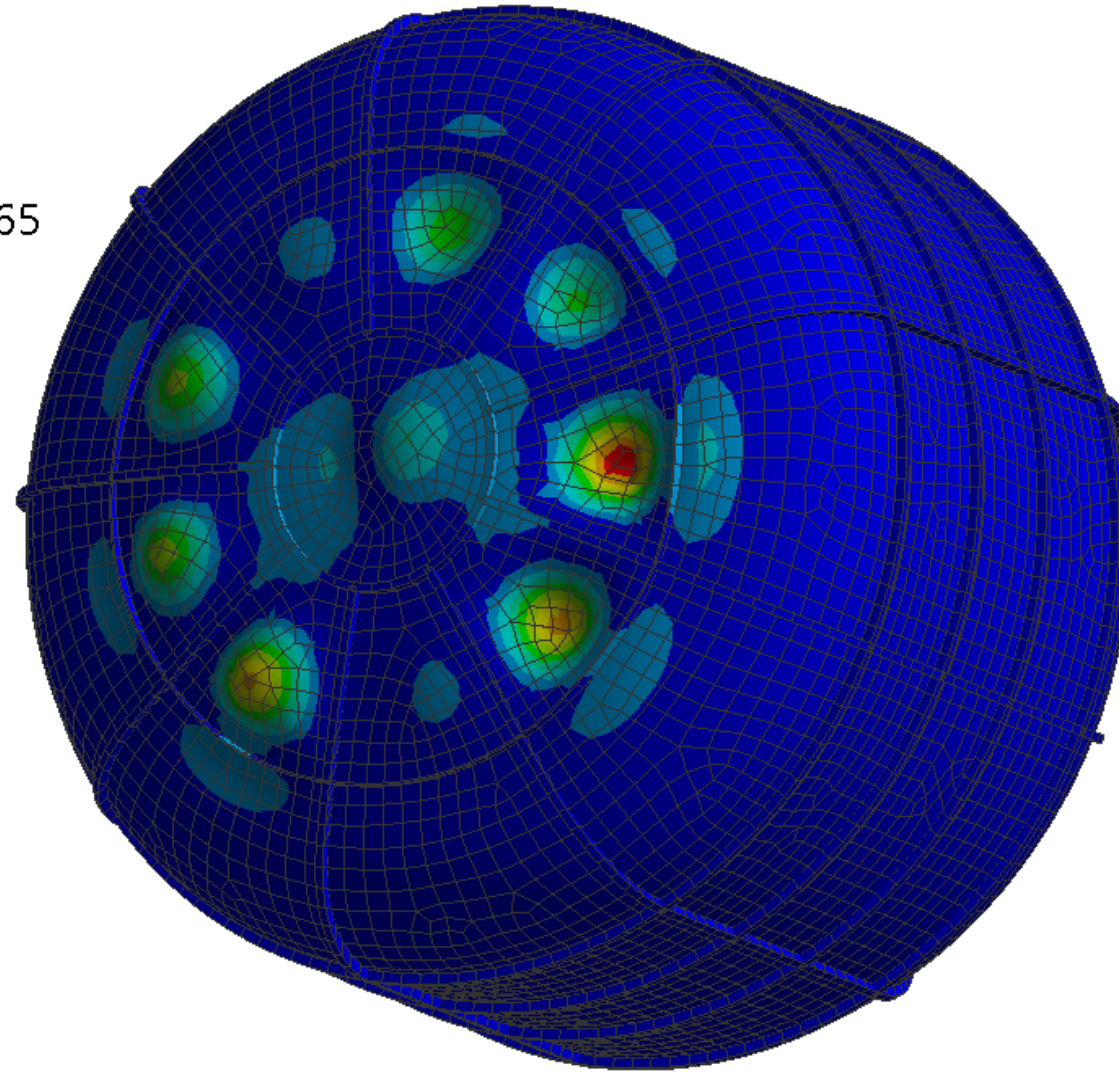
MOD01

Type: Total Deformation

Load Multiplier (Nonlinear): 7.5365

Unit: mm

01/06/2018 16:10



B: Static Structural

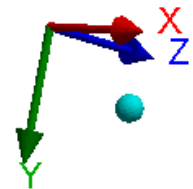
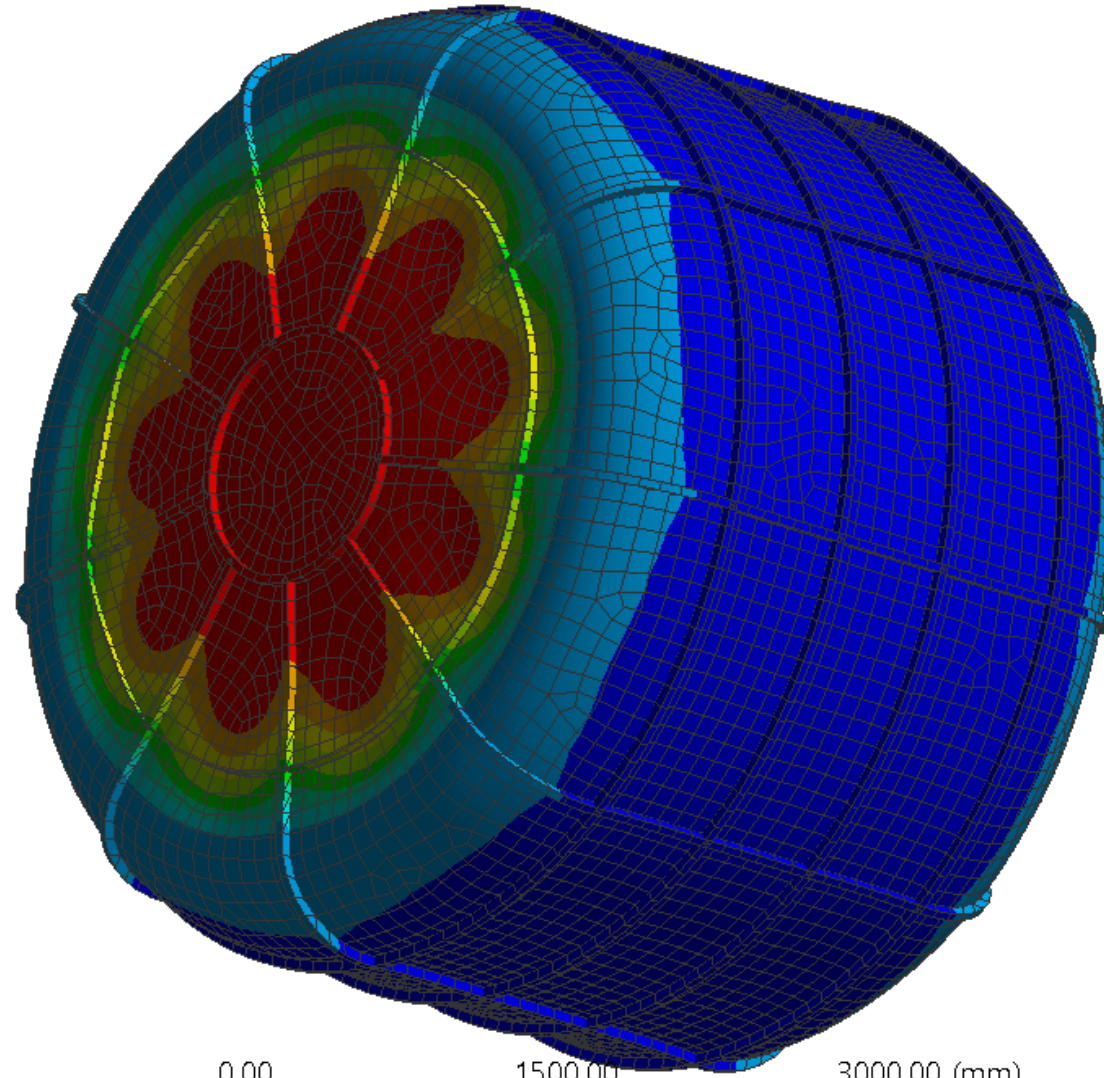
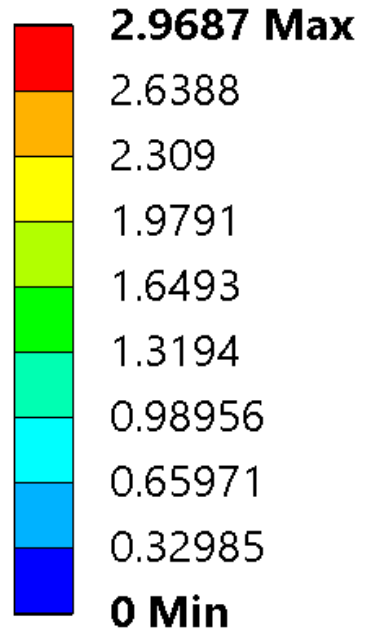
Total Deformation

Type: Total Deformation

Unit: mm

Time: 1

30/11/2018 09:38



KLASH Working Breakdown Structure

1. Cryostat

- 1.1. Vacuum chamber
 - 1.1.1.Vessel
 - 1.1.2.support system
 - 1.1.3.Temperature sensors
 - 1.1.4.Pressure sensors
 - 1.1.5.Position sensors
- 1.2. 70K Shield
 - 1.2.1.Vessel
 - 1.2.2.support system
 - 1.2.3.Vacuum throughputs
 - 1.2.4.cooling piping
 - 1.2.5.Temperature sensors
 - 1.2.6.Position sensors
- 1.3. Cavity
 - 1.3.1.Vessel
 - 1.3.2.support system
 - 1.3.3.Vacuum throughputs
 - 1.3.4.cooling piping
 - 1.3.5.Temperature sensors
 - 1.3.6.Position sensors
 - 1.3.7.Hall probe
 - 1.3.8.Antenna east
 - 1.3.8.1. Antenna east displacement device
 - 1.3.9.Antenna west
 - 1.3.9.1. Antenna west displacement device
 - 1.3.10. SQUID + electronics
 - 1.3.11. 3He refrigerator
 - 1.3.12. Tuning system
 - 1.3.12.1. tuner #1
 - 1.3.12.2. tuner #2
 - 1.3.12.3. tuner #3
 - 1.3.12.4. tuner #4

- 1.3.12.5. Tuners rotation device
 - 1.3.12.5.1. driver
 - 1.3.12.5.2. distribution
 - 1.3.12.5.3. power supply
- 1.3.13. Cryostat Vacuum pumping system

2. Service turret

- 2.1. Turret Vacuum pumping system
- 2.2. He evaporators
- 2.3. Turret/cryostat He connections
 - 2.3.1. 4K+70K send
 - 2.3.2. 4K+70K return

3. He transfer lines modification

4. Valve box re-positioning

5. Valve box/Kloe magnet new He transfer line

6. Valve box/Klash service turret He transfer line

7. Control system

- 7.1. Temperature sensors electronics
- 7.2. Position sensors electronics
- 7.3. Hall probe electronics
- 7.4. Pressure sensors electronics
- 7.5. Control unit

8. KLOE Magnet Power supply

9. Mounting tools

- 9.1. Caps moving crane
- 9.2. Vessels insertion crane

10.Services

- 10.1. Water cooling
- 10.2. Compressed air
- 10.3. Power supply

11.KLOE calorimeter and wire chamber dismounting

12.Service platform preparation

13. Civil engineering

