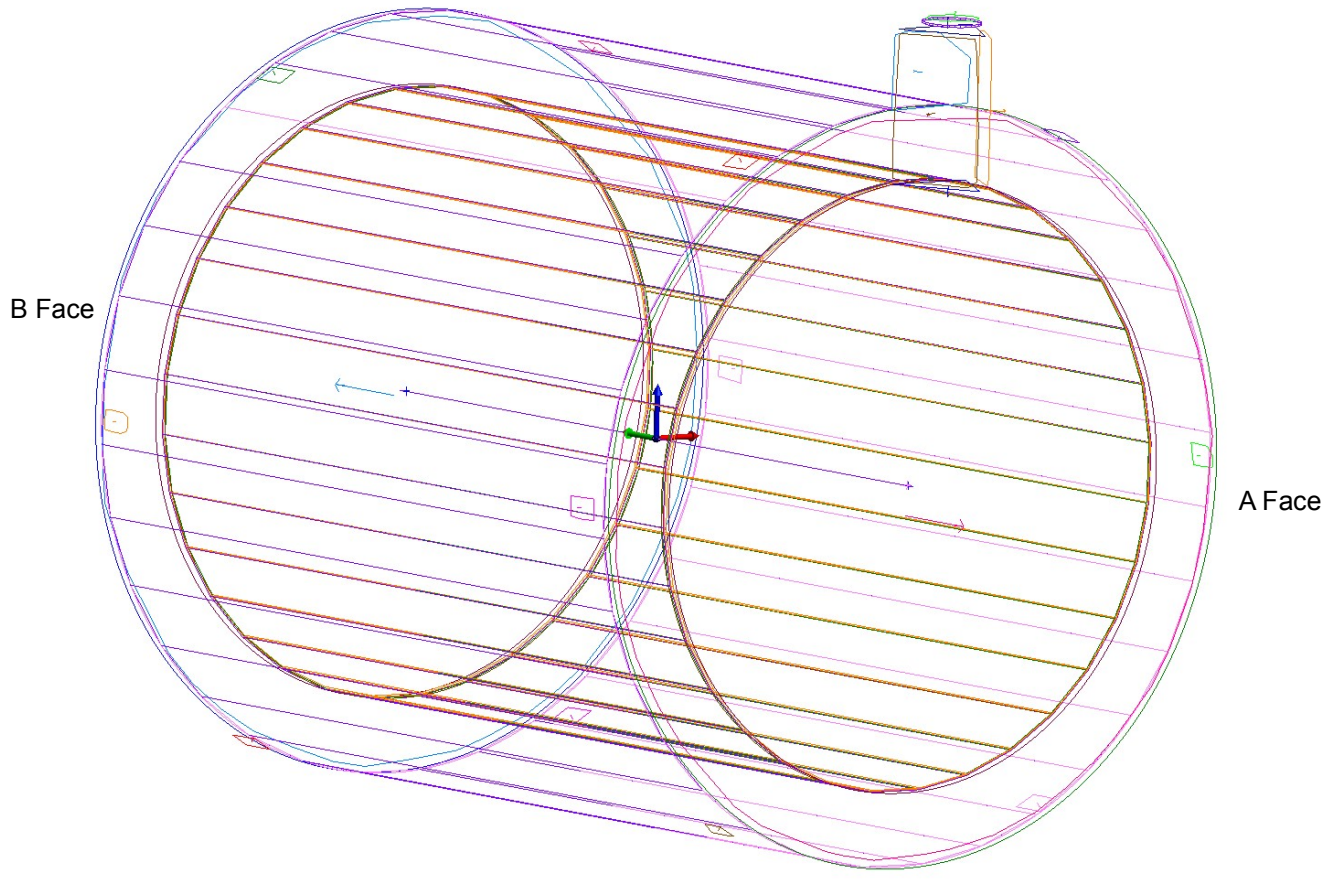


PHENIX CRYO DIMENSIONS



Length Min = -3848.92 (mm), Avg = -3848.88 (mm), Max = -3848.84 (mm)

A Face Outer Circle Diameter = 3541.04 (mm)
RMS = 0.59 (mm)
Max = 1.03 (mm)

A Face Inner Circle Diameter = 2840.18 (mm)
RMS = 0.56 (mm)
Max = 0.86 (mm)

B Face Outer Circle Diameter = 3539.62 (mm)
RMS = 0.61 (mm)
Max = 0.96 (mm)

B Face Inner Circle Diameter = 2840.76 (mm)
RMS = 0.50 (mm)
Max = 0.75 (mm)

Outer Cyl Diameter = 3536.90 (mm)
RMS = 1.340498 (mm)
Max = 3.653067 Min = -5.019435 (mm)

Inner Cyl Diameter = 2838.30 (mm)
RMS = 2.001447 (mm)
Max = 6.072185 Min = -7.811856 (mm)

PHENIX CRYO DIMENSIONS

Point Group WS::CONSTRUCTED			
Point Name	X (mm)	Y (mm)	Z (mm)
A FACE CIR	-0.03	-1924.44	0.04
A FACE CIR2	0.03	-1924.44	-0.04
B FACE CIR	0.03	1924.44	-0.04

Point Group WS::INNER CYL			
Point Name	X (mm)	Y (mm)	Z (mm)
INNER CYL End A	-0.53	-1883.95	2.26
INNER CYL End B	0.78	1871.50	0.30
INNER CYL Mid	0.12	-6.23	1.28

Point Group WS::OUTTER CYL			
Point Name	X (mm)	Y (mm)	Z (mm)
OUTTER CYL End A	-0.68	-1882.31	0.61
OUTTER CYL End B	1.42	1884.29	-0.68
OUTTER CYL Mid	0.37	0.99	-0.04

Point Group WS::INNER CYL MAX INSCRIBED			
Point Name	X (mm)	Y (mm)	Z (mm)
INNER CYL MAX INSCRIBED End A	5.28	-1883.06	0.46
INNER CYL MAX INSCRIBED End B	-1.97	1868.04	2.35
INNER CYL MAX INSCRIBED Mid	1.65	-7.51	1.41

Point Group WS::INNER CYL MAX CIRCUMSCRIBED			
Point Name	X (mm)	Y (mm)	Z (mm)
INNER CYL MAX CIRCUMSCRIBED End A	-1.60	-1884.22	3.39
INNER CYL MAX CIRCUMSCRIBED End B	-0.20	1871.84	-0.08
INNER CYL MAX CIRCUMSCRIBED Mid	-0.90	-6.19	1.65

Cylinder WS::OUTTER CYL			
	X	Y	Z
Begin (mm)	-0.68	-1882.31	0.61
End (mm)	1.42	1884.29	-0.68
Direction (mm)	0.000557	1.000000	-0.000342
Proj. Ang. (deg)	Rx from Y -0.0196°	Ry from Z 121.5607°	Rz from X 89.9681°
Radius (mm)	1768.54	Diameter (mm)	3537.07
Length (mm)	3766.59		

Cylinder WS::INNER CYL			
	X	Y	Z
Begin (mm)	-0.53	-1883.95	2.26
End (mm)	0.78	1871.50	0.30
Direction (mm)	0.000348	1.000000	-0.000524
Proj. Ang. (deg)	Rx from Y -0.0300°	Ry from Z 146.3655°	Rz from X 89.9800°
Radius (mm)	1419.15	Diameter (mm)	2838.30
Length (mm)	3755.45		

OUTTER CYL			
	Measured	Low Tol.	High Tol.
Diameter (mm)	3537.07		
Radius (mm)	1768.54		
Cylindricity (mm)	6.17		
RMS (mm)	1.21		
Measurements			617

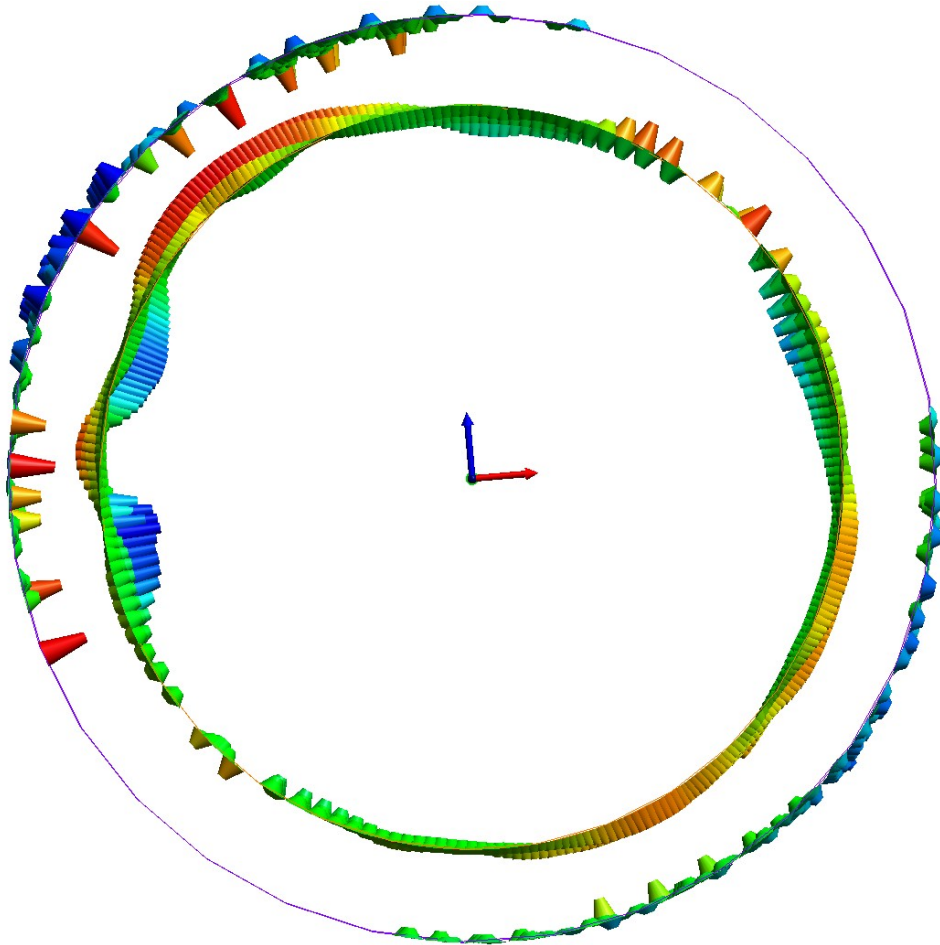
Circle WS::A FACE CIR2			
	X	Y	Z
Origin (mm)	0.03	-1924.44	-0.04
Normal (mm)	-0.000097	-1.000000	0.000173
Proj. Ang. (deg)	Rx from Y 179.9901°	Ry from Z -29.3801°	Rz from X -90.0056°
Radius (mm)	1420.09	Diameter (mm)	2840.18

Circle WS::A FACE CIR			
	X	Y	Z
Origin (mm)	-0.03	-1924.44	0.04
Normal (mm)	-0.000097	-1.000000	0.000173
Proj. Ang. (deg)	Rx from Y 179.9901°	Ry from Z -29.3801°	Rz from X -90.0056°
Radius (mm)	1770.52	Diameter (mm)	3541.04

Circle WS::B FACE CIR1			
	X	Y	Z
Origin (mm)	-0.03	1924.44	0.04
Normal (mm)	0.000094	1.000000	-0.000196
Proj. Ang. (deg)	Rx from Y -0.0112°	Ry from Z 154.3416°	Rz from X 89.9946°
Radius (mm)	1420.38	Diameter (mm)	2840.76

Circle WS::B FACE CIR			
	X	Y	Z
Origin (mm)	0.03	1924.44	-0.04
Normal (mm)	0.000094	1.000000	-0.000196
Proj. Ang. (deg)	Rx from Y -0.0112°	Ry from Z 154.3416°	Rz from X 89.9946°
Radius (mm)	1769.81	Diameter (mm)	3539.62

PHENIX CRYO DIMENSIONS



Points to Objects Relationship				
OUTER CYL to OUTER CYL (Reported in WS::CRYO MAGNET IP)				
Statistic	dX (mm)	dY (mm)	dZ (mm)	Mag (mm)
Min	-2.90	-0.00	-5.80	-7.00
Max	6.90	0.00	3.79	3.56
Average	0.09	-0.00	-0.05	-0.17
StdDev from Avg	1.09	0.00	1.04	1.51
StdDev from Zero	1.10	0.00	1.05	1.52
RMS	1.10	0.00	1.05	1.51
Tol Range				
In Tol				
Out Tol				
Count	640			