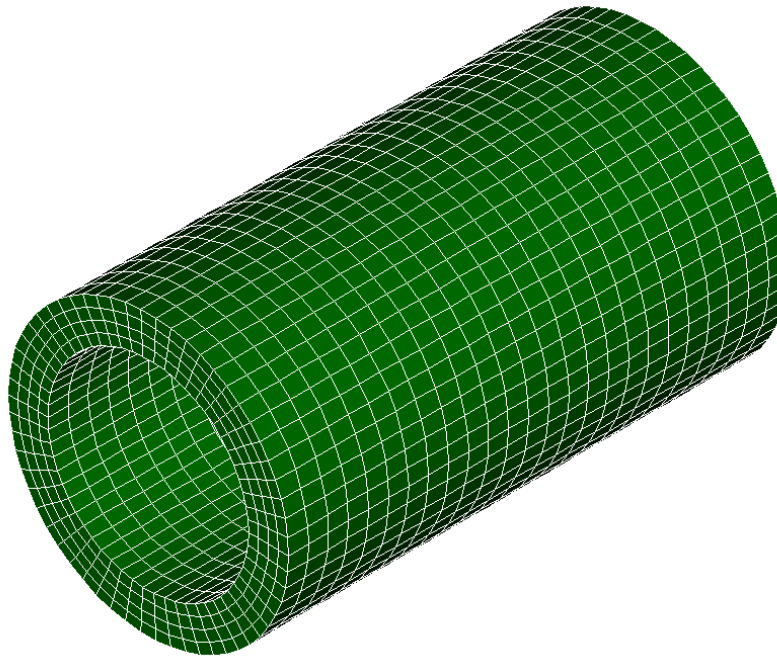


Comparison between Sargon (V8.50), NXNASTRAN and NEiNASTRAN - NORMAL MODES					
TEST 49	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	15/04/2008		



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes49.WSR	tes49000.dat		tes49.NAS	
Output file	tes49.CEN	tes49000.f06		tes49.OUT	
Q1	-1.666E-03	-1.666E-03	0.018	-1.666E-03	0.018
Q2	-3,784E-03	-3,784E-03	0,000	-3,784E-03	0,000
Q3	1,016E+00	1,015E+00	0,058	1,015E+00	0,060
Q4	1,063E+00	1,064E+00	-0,056	1,064E+00	-0,062
Q5	-9,245E+01	-9,254E+01	-0,099	-9,256E+01	-0,114

Compared Values:

- Q1 = Load Set 1 - Node 50 - Dz
- Q2 = Load Set 1 - Node 103 - Dx
- Q3 = Load Set 1 - Node 2687 on solid element 2129 - Von Mises stress
- Q4 = Load Set 1 - Node 5070 on solid element 4048 - Von Mises stress
- Q5 = Load Set 1 - Node 7513 - Constraint force Tz

Translations: [mm] Forces: [N] Moments [Nmm]
 % errNX = (Sargon - NX) / NX * 100; % errNE = (Sargon - NE) / NE * 100
 NXNASTRAN and NEiNASTRAN values are rounded up to 4 significant digits

Model data

Degrees of freedom = 21750
 Solid elements = 5800