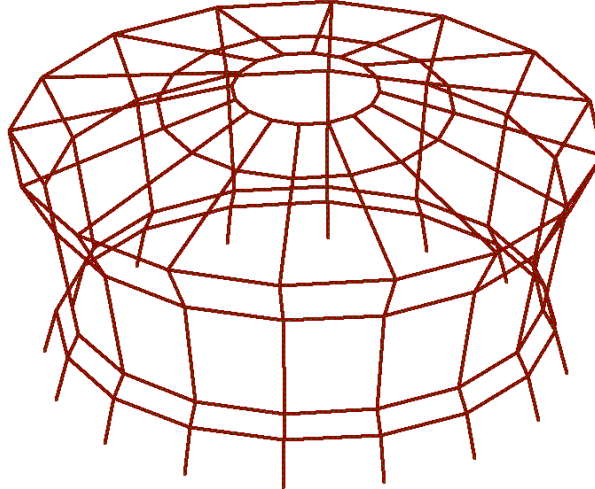


Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN					
TEST 55	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	27/11/2008		



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
<b>Model Name</b>	tes55.WSR	tes55000.dat		tes55.NAS	
<b>Output file</b>	tes55.CEN	tes55000.f06		tes55.OUT	
Q1	4.842E-02	4.842E-02	0.002	4.842E-02	-0.002
Q2	6,485E-01	6,485E-01	0,006	6,485E-01	0,006
Q3	-4,412E+02	-4,412E+02	-0,011	-4,411E+02	0,012
Q4	-3,727E+04	-3,727E+04	-0,004	-3,726E+04	0,014
Q5	-2,256E+01	-2,256E+01	-0,015	-2,261E+01	-0,202

#### Compared Values:

Q1 = Load Set 1 - Node 28 - Dz

Q2 = Load Set 1 - Node 17 - Dx

Q3 = Load Set 1 - Beam element 2 - Axial force (End1)

Q4 = Load Set 1 - Beam element 134 - Bending moment M3 (End1)

Q5 = Load Set 1 - Node 81 -Constraint Force Ty

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 = 576

Beam elements = 192