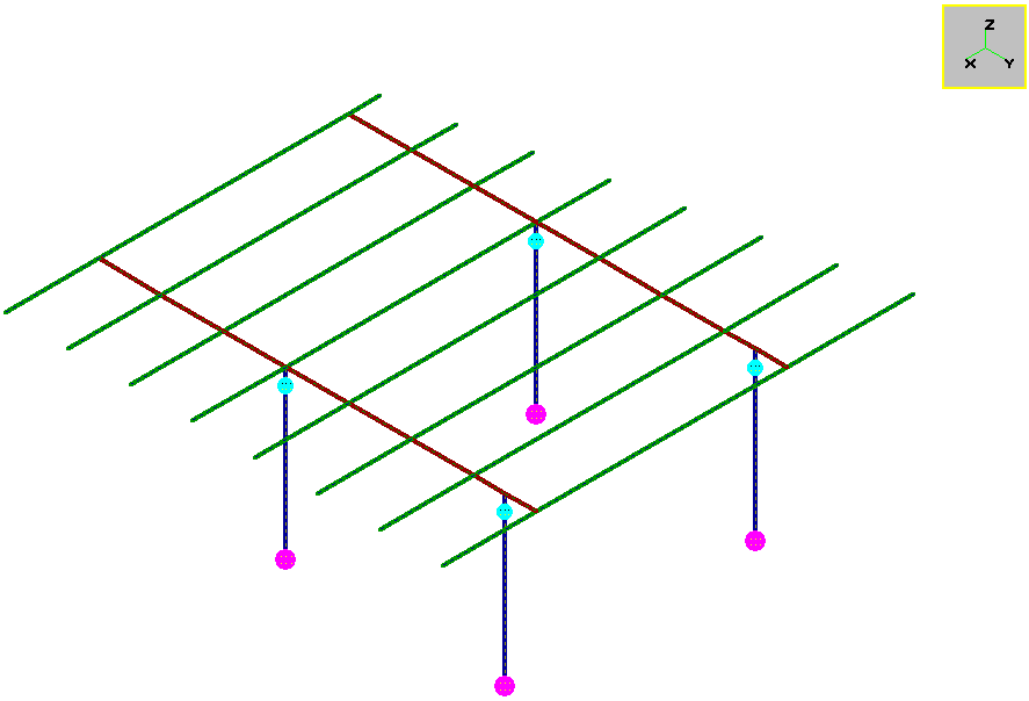
Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN			
TEST 22	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes22.WSR	tes22000.dat		tes22.NAS	
Output file	tes22.CEN	tes22000.f06		tes22.OUT	
Q1	-3,404E+00	-3,404E+00	0,00	-3,403E+00	0,02
Q2	5,236E-01	5,236E-01	-0,01	5,236E-01	0,00
Q3	-1,688E+01	-1,688E+01	-0,02	-1,688E+01	-0,01
Q4	6,570E+05	6,570E+05	0,00	6,570E+05	0,01
Q5	1,382E+04	1,382E+04	-0,01	1,382E+04	-0,01

Compared Values:

Q1 = Load Set 1 - Node 20 - Dz
Q2 = Load Set 3 - Node 10 - Dx
Q3 = Load Set 4 - Element Beam 21 - Shear y (End 1)
Q4 = Load Set 3 - Element Beam 3 - Moment y (End 1)
Q5 = Load Set 1 - Node 7 - Force Tz on Constraint

Translations: [mm] Forces: [N] Moments [Nmm]

% err is computed between Sargon and NX and between Sargon and NEi (see introduction).

NXNASTRAN and NEiNASTRAN values are rounded up to 4 significant digits; in some cases sign of moment value is changed in order to use the same Sargon rule.

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