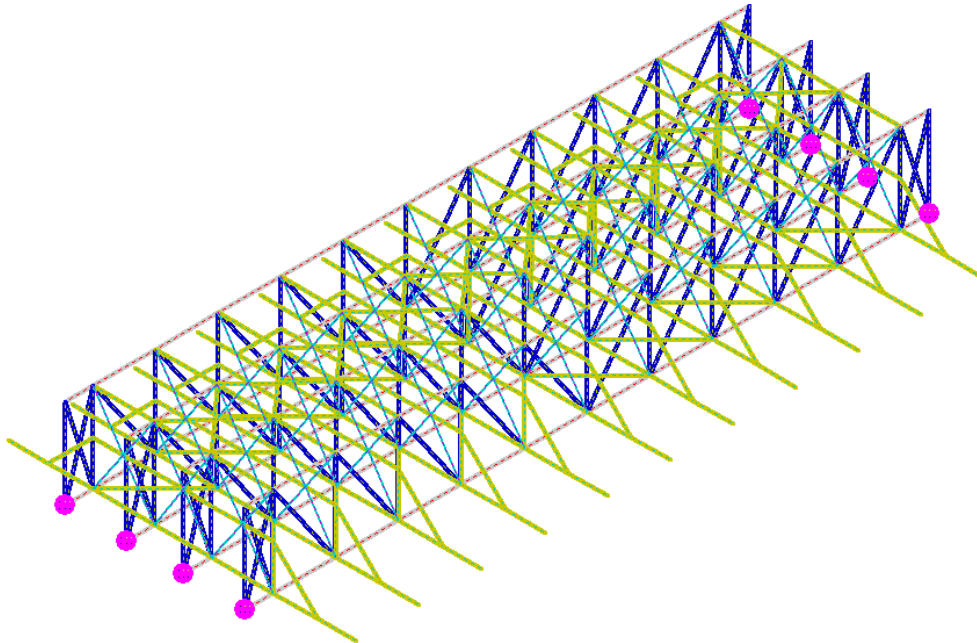


<b>Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN</b>					
<b>TEST 19</b>	<b>VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK</b>			<b>Marco Croci</b>	<b>10/02/2008</b>



	<b>Sargon (Clever)</b>	<b>NXNASTRAN</b>	<b>% err</b>	<b>NEiNASTRAN</b>	<b>% err</b>
<b>Model Name</b>	tes19.WSR	tes19000.dat		tes19.NAS	
<b>Output file</b>	tes19.CEN	tes19000.f06		tes19.OUT	
Q1	-1,131E+01	-1,131E+01	-0,02	-1,131E+01	-0,01
Q2	5,581E+00	5,581E+00	0,01	5,562E+00	0,35
Q3	1,382E+05	1,382E+05	0,03	1,380E+05	0,18
Q4	3,515E+05	3,515E+05	0,00	3,504E+05	0,32
Q5	6,189E+04	6,189E+04	0,00	6,161E+04	0,45

### Compared Values:

- Q1 = Load Set 1 - Node 90 - Dz
- Q2 = Load Set 2 - Node 10 - Dx
- Q3 = Load Set 2 - Element Beam 157 - Shear z (End 1)
- Q4 = Load Set 3 - Element Truss 54 - Axial Force (End 1)
- Q5 = Load Set 4 - Node 10 - Force Ty 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.