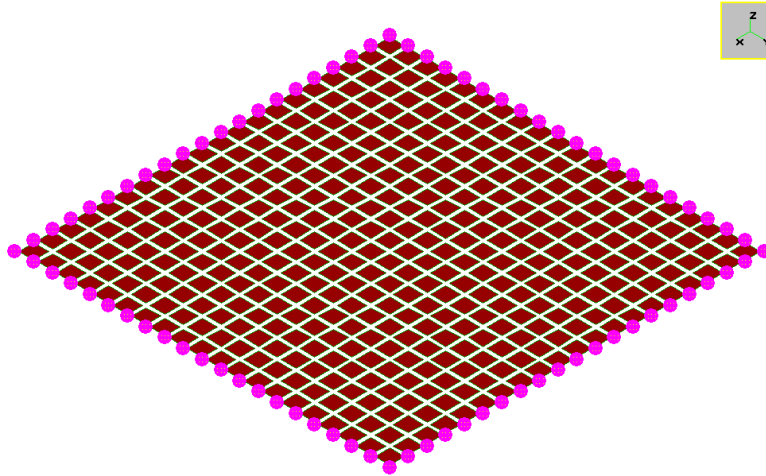


<b>Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN - NORMAL MODES</b>			
<b>TEST 32</b>	<b>VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK</b>	<b>Marco Croci</b>	<b>17/03/2008</b>



	<b>Sargon (Leda)</b>	<b>NX NASTRAN</b>		<b>NE NASTRAN</b>	
<b>Model Name</b>	tes32.WSR	tes32000.dat		tes32.NAS	
<b>Output file</b>	tes32.dou	tes32000.f06		tes32.OUT	
	<b>Frequency [Hz]</b>	<b>Frequency [Hz]</b>	<b>% errNX</b>	<b>Frequency [Hz]</b>	<b>% errNE</b>
<b>Mode 1</b>	70,901841	70,53510	0,520	71,077380	-0,247
<b>Mode 2</b>	144,476436	143,5070	0,676	145,07910	-0,415
<b>Mode 3</b>	144,476436	143,5070	0,676	145,07910	-0,415
<b>Mode 4</b>	212,498306	209,2596	1,548	213,82670	-0,621
<b>Mode 5</b>	258,792495	257,0910	0,662	260,49560	-0,654
<b>Mode 6</b>	260,062839	258,4672	0,617	261,70690	-0,628
<b>Mode 7</b>	323,424069	317,3752	1,906	326,30610	-0,883
<b>Mode 8</b>	323,424069	317,3752	1,906	326,30610	-0,883
<b>Mode 9</b>	413,651382	411,2740	0,578	417,55480	-0,935
<b>Mode 10</b>	413,651382	411,2740	0,578	417,55480	-0,935

$\% \text{ errNX} = (\text{Sargon} - \text{NX}) / \text{NX} * 100$  ;  $\% \text{ errNE} = (\text{Sargon} - \text{NE}) / \text{NE} * 100$

Notes: in Sargon Kirchoff formulation was used for plate shell elements  
in NX and NE NASTRAN CQUADR were not used

Constraints: fixed