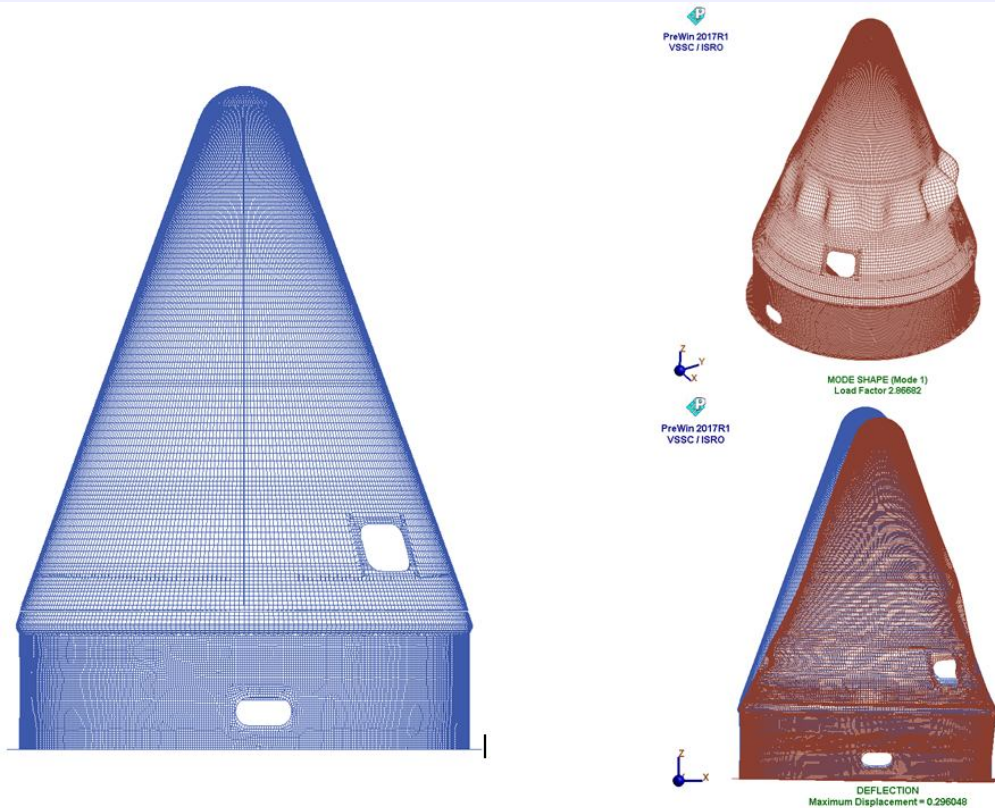


Buckling analysis of nose cone structure of a typical strap-on rocket



Material property :

1. $E= 68670 \text{ MPa}$, $\nu= 0.3$, Specific gravity = 2.85
2. $E= 205800 \text{ MPa}$, $\nu= 0.3$, Specific gravity = 7.8

Element types : Quadrilateral shell

Finite element statistics :

	Number of elements	Number of nodes	Degrees of freedom
	106814	104413	626253

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Buckling Mode 1:		
Load factor	2.8660	2.7320
Deflection, <i>mm</i>	0.2960	0.2780