



eigenvalue 4, $\text{pcr}(\text{STAGS}) = 2.874 \times 460 = 1322.0$ psi; $n=2$ circumferential waves
 Θ_x -35.84
 Θ_y -13.14
 Θ_z 35.63
 step 0 eigenvector deformed geometry
 linear buckling of perfect shell: unstiffened equivalent ellipsoid with thick apex (Seg.1)

Fig. 149 Non-axisymmetric ($n=2$ circumferential waves) linear buckling mode from STAGS that corresponds to the fourth eigenvalue for the **optimized unstiffened equivalent ellipsoidal shell with the thick apex with $t(\text{apex}) = 0.4$ inch; the optimum design is listed in Table 78.** Compare this mode with that from the STAGS “soccerball” model shown in Fig. 178, which is for the same shell. **Shells of revolution with imperfections with this non-axisymmetric shape cannot be handled by BIGBOSOR4.** Therefore, GENOPT optimization occurs in the presence of only axisymmetric buckling modal imperfections.