



mode 2, $\text{pcr}(\text{STAGS}) = 3.5177 \times 460 = 1618.14$ psi; BIGBOSOR4 gets 1622.1 psi
 meridional mesh density for approximately square finite elements $\Theta x \quad -35.84$
 eigenvector, deformed geometry; model with 10 degrees of circumference $\Theta y \quad -13.14$
 linear buckling of perfect shell: isogrid-stiffened equivalent ellipsoid: eqellipse.stiffened.opm4 $\Theta z \quad 35.63$

Fig. 37 STAGS prediction of linear bifurcation buckling of the optimized **isogrid-stiffened** equivalent ellipsoidal shell from a refined model that subtends 10 degrees of circumference. For the “slice” STAGS model this is the second buckling mode. The analogous axisymmetric mode computed by BIGBOSOR4 (Fig. 5) is called “**mode 2**” in the GENOPT jargon. Compare with Figs. 5 and 9. In the 360-degree STAGS model this mode corresponds to the sixth eigenvalue (Fig. 9).