

mode 8, pcr(STAGS) = 4.1292 x 460 = 1899.43 psi; BIGBOSOR4 gets 1899.80 psi STAGS prediction for shell optimized with the use of modes 1, 2, 3, 4  $\begin{array}{c} \Theta$  x -35.84  $\\ \Theta$  y -13.14  $\\ \Theta$  z 35.63 linear buckling of perfect shell: isogrid-stiffened equivalent ellipsoid: eqellipse.stiffened.4loadsets.opm

Fig. 62 n = 0 circumferential waves (axisymmetric) linear buckling mode shape from STAGS for the optimum design of the **isogrid-stiffened** equivalent ellipsoidal shell listed in Table 52. The optimum design was obtained with BIGBOSOR4 with the use of plus and minus axisymmetric **mode 1, mode 2, mode 3, and mode 4** imperfection shapes with amplitude, Wimp = 0.2 inch. This STAGS buckling mode is analogous to the axisymmetric buckling mode from BIGBOSOR4 shown in Fig. 55, which in GENOPT jargon is called "**mode 2**". It corresponds to eigenvalue no. 8 in the STAGS model. Compare with the analogous buckling mode for the "2-mode" optimized isogrid-stiffened shell shown in Fig. 9.