

step 0 eigenvector deformed geometry
linear buckling of perfect shell: isogrid-stiffened equivalent ellipsoid: eqellipse.stiffened.4loadsets.orm

Fig. 60 n = 2 circumferential wave non-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

stiffened shell shown in Fig. 8. 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.

with amplitude, Wimp = 0.2 inch. This STAGS buckling mode corresponds to eigenvalue no. 4. Compare with the analogous buckling mode for the "2-mode" optimized isogrid-