Table 39 **Run stream** to produce the results for the **imperfect, isogrid-stiffened** equivalent ellipsoidal shell, which is the case called "eqellipse.stiffened" in the directory, /home/progs/genopt/case/torisph.
The GENOPT case is run in the directory, /home/progs/genoptcase.
(/home/progs = the directory where the GENOPT system is stored on the writer's computer).

```
===============================================================

COMMAND         PURPOSE OF THE COMMAND             FILES
                                               input    output
(PART 1 First generate results from GENOPT...)

begin       establish the starting design      *.BEG    *.OPB
decide      choose decision variables, bounds  *.DEC    *.OPD
mainsetup   choose analysis type, strategy     *.OPT    -----
superopt    96-hour "batch" run.               *.OPT    *.OPP
            five OPTIMIZEs per AUTOCHANGE
chooseplot  choose what to plot vs design      *.CPL    -----
            iterations.
diplot      get plot file, *.5.ps             various   *.5.ps

superopt    96-hour "batch" run.               *.OPT    *.OPP
            five OPTIMIZEs per AUTOCHANGE
chooseplot  choose what to plot vs design      *.CPL    -----
            iterations.
diplot      get plot file, *.5.ps             various   *.5.ps

superopt    96-hour "batch" run.               *.OPT    *.OPP
            five OPTIMIZEs per AUTOCHANGE
chooseplot  choose what to plot vs design      *.CPL    -----
            iterations.
diplot      get plot file, *.5.ps             various   *.5.ps

superopt    96-hour "batch" run.               *.OPT    *.OPP
            five OPTIMIZEs per AUTOCHANGE
chooseplot  choose what to plot vs design      *.CPL    -----
            iterations.
diplot      get plot file, *.5.ps             various   *.5.ps
  (The results from the last SUPEROPT run appear in
   Fig. 3)

  (In the *.OPT file, change NPRINT from 0 to 1 and
   ITYPE from 1 to 2, that is, analysis of fixed design).
mainsetup   choose analysis type, strategy     *.OPT    -----
optimize    run fixed design analysis in       *.OPT    *.OPM
            the foreground - about 50 seconds
```

```
            are required.

  (The optimum design and margins, etc. are listed in
   the file, eqellipse.stiffened.opm4 in the directory,
   ../genopt/case/torisph. See Table 33, in particular the
   two columns headed "isogrid-stiffened, imperfect", and
   see Tables 30 - 32. See Table a19 in the appendix.)

  (Next, save the optimum design by using "CHANGE". This
   is always a good practice. Then, should you want to
   rerun the case without optimization but using the
   optimum design as a "starting" design, you can easily
   do this by first executing "BEGIN" immediately followed
   by an execution of "CHANGE" with use of the input file
   for "CHANGE", that is, the file called *.CHG. See Table 38.)

change      run the processor called "CHANGE"  *.CHG   *.OPC
            As input, provide the latest
            optimum design, in this case the
            design that is listed in the file,
            eqellipse.stiffened.opm4 (see the
            previous table for the input data.
            See Table 38 for a list of *.CHG)
-------------------------------------------------------------


(PART 2 Next, generate results from BIGBOSOR4 for the optimum
        design. See the footnote in Table 30 for more info...)

cp eqellipse.ALL1 /home/progs/bigbosor4/work/eqellipse.ALL
cd /home/progs/bigbosor4/work
bigbosor4log activate bigbosor4 command set    -----    -----
bigbosorall  run bigbosor4 in foreground.      *.ALL    *.OUT
bosorplot    get plots of mode 1 and mode 2
             buckling of perfect, optimized
             isogrid-stiffened torispherical
             shell.
  (The plots are in Figs. 4 (mode 1) and 5 (mode 2))
-------------------------------------------------------------

(PART 3 Results from STAGS FOR THE OPTIMUM DESIGN...)

(Please see the next table.)
=============================================================
```