VII.F. PUBLICATION AIDS

While the SAMMY.LPT and the SAMMY.PAR output files both contain values for the resonance parameters, neither is presented in a manner that is suitable for publication purposes. To obtain complete resonance-parameter output that can be easily formatted for publication, include the command

`PUBLISH`, *or*

`CREATE PUBLISHABLE List of parameters`

in the INPut file. Use of these commands will cause creation of a file named SAMMY.PUB, which contains resonance parameter values and uncertainties, plus quantum number information, in columns separated by tabs. This file can easily be ported to a spreadsheet program for formatting as required.

The columns headings for the SAMMY.PUB file are shown in Table VII F.1. Within the table, resonances are ordered according to energy, from low to high.

The outline in Table VII F.2 describes (in excruciating detail) one possible method of converting SAMMY.PUB into an Excel spreadsheet formatted in a manner that might be suitable for publication in a technical manual.

Table VII F.1. Columns of SAMMY.PUB file

Column Heading	Meaning
J	πJ = parity and spin of the spin group to which this resonance belongs
L	l = Orbital angular momentum of the first channel in this spin group
Energy	Resonance energy E_λ
Unc_E	Uncertainty on the resonance energy E_λ
W_Capture	$\overline{\Gamma}_{\lambda\gamma}$ = capture width
Unc_Cap	Uncertainty on the capture width
Width_1	$\Gamma_{\lambda 1}$ = width for the incident channel
Uncer_1	Uncertainty on $\Gamma_{\lambda 1}$
Width_2	$\Gamma_{\lambda 2}$ = width for the second channel
Uncer_2	Uncertainty on $\Gamma_{\lambda 2}$
Etc.	Repeat for other widths

Table VII F.2. Converting SAMMY.PUB into a spreadsheet

1. copy SAMMY.PUB onto a Windows directory
2. bring up Excel, perhaps via
    a. Start
        i. Programs
            1. Excel
3. data (one of the menus across top of page)
    a. import external data
        i. import data
            1. all files (box at bottom)
            2. highlight the SAMMY.PUB file
            3. Open
                a. Next
                b. Next
                c. Finish
                d. OK
4. put the curser in the grey box above "1" and to the right of "A"
5. format (another of menus at top)
    a. cells
        i. number
            1. decimal places (2 or 3 or whatever)
                a. OK
6. put the curser above the "J" column
7. format
    a. cells
        i. number
            1. decimal places = 1
                a. OK
8. put the curser above the "L" column
9. format
    a. cells
        i. number
            1. decimal places = 0
                a. OK
10. put the curser in the grey box above "1" and to the right of "A"
11. format
    a. column
        i. autofit selection
12. other options of interest:
    a. to add or delete a row or column … need icons on tool bar
        i. tools/customize/command/edit/ and /insert/; move icons to tool bar
        ii. once icons are there, put curser in column or row to delete (or after position to add column or row), and click the icon
    b. to move a column
        i. highlight the column (click on letter above column)
        ii. click scissors (cut)
        iii. highlight the (empty) column into which you want to move this one
        iv. hit "enter"