

## X.N. SAMSTA: STAIRCASE PLOTS

To produce an ODF file from which can be made staircase plots of SAMMY resonances for specified spin groups, use the program SAMSTA. Input to SAMSTA is shown in Table X N.1. Output consists of a single file in ORELA Data FORMAT (ODF) (or binary, depending on the system); Section 1 of that file contains resonance energies, and Section 2 contains the number of resonances (from the specified spin groups) at or below the corresponding energy.

Note that the SAMMY INPut file is not read by SAMSTA; the only information required from that file is the  $l$ -value associated with the given spin groups, and that information is provided directly to SAMSTA. The user should therefore take care to provide correct input, since SAMSTA cannot make consistency checks ( $l$ -value vs. spin group number, for example).

**Table X N.1 Input for Program SAMSTA**

Question	Response
1. What is name of parameter file?	Name of SAMMY PARAmeter file
2. What is spin ( $l$ )? What are spin group numbers?	Orbital angular momentum for channel 1, as specified by the variable LSPIN in card set 10 of the INPut file; spin group numbers for those groups have this $l$ -value. Format is "6I3"
3. What is name for ODF file?	Name for the output ODF file to be produced by SAMSTA
Questions 2 and 3 are repeated until the user enters "0" for spin and group numbers.	