

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
1a:1			When this format is used for input of resonance parameters, the command “REDUCED WIDTH AMPLITudes are used for input” must be included in the INPut file.	
1-11, F		$\sqrt{E_\lambda}$	Square root of the resonance energy E_λ ($\sqrt{\text{eV}}$)	When $E_\lambda < 0$, the quantity to be given here is $-\sqrt{-E_\lambda}$.
12-22, F		$\bar{\gamma}_\gamma$	Reduced-width amplitude for the eliminated capture channel ($\sqrt{\text{eV}}$)	
23-33, F		γ_{c1}	Reduced-width amplitude for channel 1 ($\sqrt{\text{eV}}$)	
34-44, F		γ_{c2}	Reduced-width amplitude for channel 2 ($\sqrt{\text{eV}}$)	
45-55, F		γ_{c3}	Reduced-width amplitude for channel 3 ($\sqrt{\text{eV}}$)	
56-57, I		IS _E	Vary $\sqrt{E_\lambda}$?	0 = no, 1 = yes, 3 = PUP (See Section IV for meanings of “vary” and “PUP”.)
58-59, I		IS _{γ}	Vary $\bar{\gamma}_\gamma$?	0 = no, 1 = yes, 3 = PUP
60-61, I		IS _{c1}	Vary γ_{c1} ?	0 = no, 1 = yes, 3 = PUP
62-63, I		IS _{c2}	Vary γ_{c2} ?	0 = no, 1 = yes, 3 = PUP
64-65, I		IS _{c3}	Vary γ_{c3} ?	0 = no, 1 = yes, 3 = PUP
66-67, I		IGROUP	Quantum numbers for this resonance are those of group number IGROUP (card set 10.1 or 10.2 in Table VIA.1)	If IGROUP is negative or greater than 50, this resonance will be omitted from the calculation.
			(To use more than 50 spin groups, include the phrase “USE I4 FORMAT TO READ spin group number” in the INPut file card set 3. Then use Columns 66-68 for IGROUP, and columns 70-82 for X. The maximum number of spin groups is then 500; values greater than 500 indicate omitted resonances.)	

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
1a:1 cont.	68-80, F	X	For many cases, this variable is not used (columns may be left blank). However, if $X < 0$, then values of γ for other particle channels are included on the following line. For other possible meanings for X, see card set 1.	
1a:2	1-11, F	γ_{c4}	Reduced-width amplitude for channel 4 ($\sqrt{\text{eV}}$)	This line is present only if $X < 0$ on the preceding line
	12-22, F	γ_{c5}	Reduced-width amplitude for channel 5 ($\sqrt{\text{eV}}$)	
	23-33, F	γ_{c6}	Reduced-width amplitude for channel 6 ($\sqrt{\text{eV}}$)	
	34-44, F	γ_{c7}	Reduced-width amplitude for channel 7 ($\sqrt{\text{eV}}$)	
	45-55, F	γ_{c8}	Reduced-width amplitude for channel 8 ($\sqrt{\text{eV}}$)	
	56-57, I	IS _{c4}	Vary γ_{c4} ?	0 = no, 1 = yes, 3 = PUP
	58-59, I	IS _{c5}	Vary γ_{c5} ?	0 = no, 1 = yes, 3 = PUP
	60-61, I	IS _{c6}	Vary γ_{c6} ?	0 = no, 1 = yes, 3 = PUP
	62-63, I	IS _{c7}	Vary γ_{c7} ?	0 = no, 1 = yes, 3 = PUP
	64-65, I	IS _{c8}	Vary γ_{c8} ?	0 = no, 1 = yes, 3 = PUP
	66-67, I	IGROUP	must be same as previous line	
	68-80, F	X	As above, negative to indicate continuation line. Positive for uncertainty on resonance energy, or for off-diagonal DCM.	
1a:3,4, etc	Repeat line 2 as needed, to include all non-zero reduced-width amplitudes.			
1a:5 etc,	Repeat lines 1 – 4 as many times as needed, until all resonances are specified.			
1a:Last	End with a blank line.			