

Table VI B.2. Format of the PARameter file

Comment 1: The two numbers in the first column (labeled “C:L”) represent the card set number (before the colon) and the line number within that card set (after the colon).

Comment 2: Numbers in the second column (labeled “P, T”) indicate position number within the line. Letters indicate format type: integer format (“I”, which implies a number without a decimal point and requires that the number be in the right-most columns), real format (“F”, which requires a number with a decimal point), or alphanumeric (“A”, which can be numbers or letters or symbols).

C:L	P, T	Variable Name	Meaning (units)	Notes
1:1	1-11, F	E_λ	Resonance energy E_λ (eV)	
	12-22, F	Γ_γ	Capture width (milli-eV)	
	23-33, F	Γ_{c1}	Particle width for channel 1 (milli-eV)	If any particle width Γ is negative, SAMMY uses $ \Gamma $ for the width and set the associated amplitude γ to be negative. That is, SAMMY uses $\gamma = -\alpha\sqrt{ \Gamma }$, where α is the appropriate factor (see Section II.A.1).
	34-44, F	Γ_{c2}	Particle width for channel 2 (milli-eV)	
	45-55, F	Γ_{c3}	Particle width for channel 3 (milli-eV)	
	56-57, I	IS_E	Vary E_λ ?	0 = no, 1 = yes, 3 = PUP (See Section IV for meanings of “vary” and “PUP”.)
	58-59, I	IS_γ	Vary Γ_γ ?	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.)