

Table VI B.2 (continued)

C:L	P,T	Variable Name	Meaning (units)	Notes
11:5	1-5, A	WHAT	"GAMMA"	Use the same $\Gamma_\gamma$ for all resonances in this spin group.
	6-7, I	IG	Spin group number	
	8-9, I	IFG	Flag for GAMGAM	If this line exists for <i>any</i> spin group, then a line must be given for <i>every</i> spin group.
	11-20, F	GAMGAM	Radiation width $\Gamma_\gamma$ for all resonances in spin group IG	
	21-30, F	DGAM	Uncertainty on GAMGAM	
11:6	1-5, A	WHAT	"TZERO"	See Section III.E.8.
	7, I	IFTZER	Flag for $t_0$	
	9, I	IFLZER	Flag for $L_0$	
	11-20, F	TZERO	$t_0$ ( $\mu$ s)	
	21-30, F	DTZERO	Uncertainty on $t_0$ ( $\mu$ s)	
	31-40, F	LZERO	$L_0$ (dimensionless)	
	41-50, F	DLZERO	Uncertainty on $L_0$ (dimensionless)	
	51-60, F	FPL	Flight-path length (m)	This value for the flight-path length is used only if DIST is zero ( INPut File, card set 5).
11:7	1-5, A	WHAT	"SIABN"	Abundances for self-indication transmission sample. See Section III.E.6.
	7, I	IF1	Flag for SIABN(1)	
	9, I	IF2	Flag for SIABN(2)	
	10, I	IF3	Flag for SIABN(3)	
	11-20, F	SIABN(1)	Abundance for nuclide # 1	Note that nuclides are defined in card set 10, which <u>must</u> occur before card set 11 in the PARAmeter file.
	21-30, F	DS(1)	Uncertainty on SIABN(1)	
	31-40, F	SIABN(2)	Abundance for nuclide # 2	
	41-50, F	DS(2)	Uncertainty on SIABN(2)	Repeat this line until all nuclides have been included.
	51-60, F	SIABN(3)	Abundance for nuclide # 3	
	61-70, F	DS(3)	Uncertainty on SIABN(3)	

**Table VI B.2 (continued)**

C:L	P,T	Variable Name	Meaning (units)	Notes
11:8	1-5, A	WHAT	"SELF I"	Temperature and thickness for transmission sample for self-indication experiment. See Section III.E.6.
	7, I	IFTEMP	Flag for temperature	
	9, I	IFTHCK	Flag for thickness	
	11-20, F	SITEM	Effective temperature (K) for self-indication transmission sample	
	21-30, F	dSITEM	Uncertainty on SITEM	
	31-40, F	SITHC	Thickness (atoms/barn)	
	41-50, F	dSITHC	Uncertainty on SITHC	
11:9	1-5, A	WHAT	"EFFIC"	Efficiencies for capture and for fission for eta calculation.
	7, I	IFCAPE	Flag for capture efficiency	
	9, I	IFFISE	Flag for fission efficiency	
	11-20, F	EFCAP	Efficiency for detecting capture events	
	21-30, F	EFFIS	Efficiency for detecting fission events	
	31-40, F	dEFCAP	Uncertainty on EFCAP	
	41-50, F	dEFFIS	Uncertainty on EFFIS	
11:10	1-5, A	WHAT	"DELTE"	Delta-E is energy dependent, as described in Section III.C.1.b, Eq. (III C1 b.7).
	7, I	IFLAG1	Flag for DELE1	
	9, I	IFLAG0	Flag for DELE0	
	10, I	IFLAGL	Flag for DELEL	
	11-20, F	DELE1	Coefficient of $E$ in Eq. (III A2b.7) (m / eV)	
	21-30, F	DD1	Uncertainty on DELE1	
	31-40, F	DELE0	Constant term in Eq. (III A 2b.7) (m)	
	41-50, F	DD0	Uncertainty on DELE0	
	51-60, F	DELEL	Coefficient of log term in Eq. (III A 2b.7) (m / ln(eV))	
	61-70, F	DDL	Uncertainty on DELEL	

**Table VI B.2 (continued)**

C:L	P,T	Variable Name	Meaning (units)	Notes
11:11	1-5, A	WHAT	“DRCAP”	Numerical direct capture component for nuclide number NUC is read from DRC file; COEF (NUC) multiplies that value.  Note that this line may be included as many times as needed, to a maximum of once per nuclide.  See Section II.B.4 for details.
	7, I	IFLAG1	Flag to vary COEF(Nuc)	
	9, I	NUC	Nuclide Number	
	11-20, F	COEF	Coefficient of the value given in the DRC file	
	21-30, F	dCOEF	Uncertainty on COEF	
11:12	1-5, A	WHAT	“NSENS”	This line must be present when neutron sensitivity calculations are to be included with self-shielding and multiple-scattering corrections. See Section III.D, Eq. (III D.17), for details.
	7, I	IFNEUT	Flag for neutron sensitivity	
	11-20, F	SENSIN	A = multiplier for neutron-sensitivity calculation; value is equal to the binding energy of the target nucleus. (SAMMY will automatically set this to a positive value, even if a negative value is given.)	
	21-30, F	DSENSN	Uncertainty on A	
11:13	1-5,A	WHAT	“NONUN” or “NON U”	Non-uniform sample; thickness is a function of radius (see Section III.E.1.a for transmission). At least two lines must be given, all together in one location in the card set; the first line must have zero radius (the center of the sample) and the last must be at the outer edge of the sample. No fitting is yet permitted with these parameters. See test case tr176 for examples.
	21-30, F	$R_1 = 0$	Radius at which thickness is to be given	
	31-40, F	$Z_1$	Positive value for the sample thickness at this radius	
	41-50, F	$dZ_1$	Uncertainty on thickness	
11:Last	(blank)			