

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
14:1	1-80, A	WHAT	“RPI Resolution” “GEEL resolution” “GELINa resolution” “NTOF resolution”	See Section III.C.3. This card set could be put into the INPut file rather than PARAMeter file if no values are to be varied.
14:2	1-5, A	WHAT	“BURST”	This line may be omitted.
	7, I	IP	Flag to vary P	0, 1, or 3 to keep, vary, or PUP.
	11-20, F	P	Full width at half max of burst (ns)	
	21-30, F	dP	Uncertainty on P	
14:3	1-5, A	WHAT	“TAU ” (two spaces needed)	This line may be omitted, in which case line 4 is also omitted.
	6, I to 10, I	τ_1 to τ_5	Flags to vary τ_1 to τ_5 one flag per column	0, 1, or 3 to keep, vary, or PUP.
	11-20, F to 71-80, F	TAU1 to TAU7	τ_1 through τ_7 10 spaces for each value	These lines give parameters for τ from Eq. (III C3 a.4).
14:4	6, I	τ_6	Flag to vary τ_6	This line is present if and only if line 3 is also present.
	7, I	τ_7	Flag to vary τ_7	0, 1, or 3 to keep, vary, or PUP.
	11-20, F to 71-80, F	dTAU1 to dTAU7	Uncertainty on τ_1 through τ_7 10 spaces for each value	
14:5	1-5, A	WHAT	“LAMBD”	This line may be omitted, in which case line 6 is also omitted.
	6, I to 10, I	Λ_0 to Λ_4	Flag to vary $\Lambda_0, \Lambda_1, \Lambda_2, \Lambda_3, \Lambda_4$ One space per flag	0, 1, or 3 to keep, vary, or PUP.
	11-20, F to 51-60, F	LAM0 to LAM4	$\Lambda_0, \Lambda_1, \Lambda_2, \Lambda_3, \Lambda_4$ 10 spaces for each value	See Eq. (III C3 a.3) and Tables III C3 b.1 and 2 for details.
14:6	11-20, F to 51-60, F	dLAM0 to dLAM4	Uncertainties on $\Lambda_0, \Lambda_1, \Lambda_2, \Lambda_3, \Lambda_4$	This line is present if and only if line 5 is also present.

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
14:7	1-5, A	WHAT	“A1 ” (That’s “A One, blank blank blank”)	This line may be omitted, in which case line 8 is also omitted.
	6, I to 10, I	IAA1 to IAA5	Flag to vary a_1, a_2, a_3, a_4, a_5 (one space per flag)	0, 1, or 3 to keep, vary, or PUP.
	11-20, F to 71-80, F	AA1 to AA7	Values for $a_1, a_2, a_3, a_4, a_5, a_6, a_7$ from Eq. (III C3 a.5) 10 spaces for each value	See Eq. (III C3 a.5) and Tables III C3 b.1 and 2 for details.
14:8	6, I	IAA6	Flag to vary a_6	This line is present if and only if line 7 is also present.
	7, I	IAA7	Flag to vary a_7	
	11-20, F to 71-80, F	dAA1 to dAA7	Uncertainties on $a_1, a_2, a_3, a_4, a_5, a_6, a_7$	
14:9	1-5, A	WHAT	“EXPON”	This line may be omitted (in which case line 10 is also omitted).
	6, I to 10, I	IT0, IA2 to IA5	Flag to vary t_0, A_2, A_3, A_4, A_5 One space per flag	See Eq. (III C3 a.2) and Tables III C3 b.1 and 2 for details. If lines 11 and 12 are present, the value for A_3 given here will be ignored. Likewise, when lines 13 and 14 are present, the value for A_5 given here will be ignored.
	11-20, F to 51-60, F	T0, A2 to A5	Values for t_0, A_2, A_3, A_4, A_5 from Eq. (III C3 a.2) 10 spaces for each value	
14: 10	11-20, F to 51-60, F	dT0, dA2 to dA5	Uncertainties on t_0, A_2, A_3, A_4, A_5 10 spaces for each value	This line is present if and only if line 9 is also present.
14: 11	1-5, A	WHAT	“A3SQE” or “A3 ” (“A 3 blank blank blank”)	This line may be omitted, in which case line 12 is also omitted and A_3 is equal to the value given in line 9.
	6, I to 10, I	IAA31 to IAA35	Flag to vary $a_{31}, a_{32}, a_{33}, a_{34}, a_{35}$. One space per flag	With WHAT=“A3SQE”, the value of α_3 is sqrt(E).
	11-20, F to 71-80, F	AA31 to AA37	Values for $a_{31}, a_{32}, a_{33}, a_{34}, a_{35}, a_{36}$, and a_{37} from Eq. (III C3 a.5), 10 spaces for each.	With WHAT=“A3 ”, $\alpha_3 = 1$. See Eq. (III C3 a.5) for details.

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
14: 12	6, I	IAA36	Flag to vary a_{36}	This line is present if and only if line 11 is also present.
	7, I	IAA37	Flag to vary a_{37}	0, 1, or 3 to keep, vary, or PUP.
	8, I	indicator	2 → multiply A3 by \sqrt{E} 0 → do not	
	11-20, F to 71-80, F	dAA31 to dAA37	Uncertainties on a_{31} , a_{32} , a_{33} , a_{34} , a_{35} , a_{36} , and a_{37}	
14: 13	1-5, A	WHAT	“A5SQE” or “A5 ” (“A 5 blank blank blank”) See notes in next column.	This line may be omitted, in which case line 14 is also omitted and A_5 is assumed to be energy independent.
	6, I to 10, I	IAA31 to IAA35	Flag to vary a_{51} , a_{52} , a_{53} , a_{54} , a_{55} . One space per flag	With WHAT=“A5SQE”, the value of α_5 is \sqrt{E} .
	11-20, F to 71-80, F	AA51 to AA57	Values for a_{51} , a_{52} , a_{53} , a_{54} , a_{55} , a_{56} , and a_{57} from Eq. (III C3 a.5), 10 spaces each	With WHAT=“A5 ”, $\alpha_5 = 1$. See Eq. (III C3 a.5) for details.
	6, I	IAA56	Flag to vary a_{56}	
14: 14	7, I	IAA57	Flag to vary a_{57}	This line is present if and only if line 13 is also present.
	8, I	indicator	2 → multiply A5 by \sqrt{E} 0 → do not	
	11-20, F to 71-80, F	dAA51 to dAA57	Uncertainties on a_{51} , a_{52} , a_{53} , a_{54} , a_{55} , a_{56} , and a_{57}	
	6, I	IB1	Flag to vary B_1	
14: 15	1-5, A	WHAT	“XXPON”	This line may be omitted.
	6, I	IB1	Flag to vary B_1	Line gives values for extra exponential terms Eq. (III C3 a.2).
	7, I	IB2	Flag to vary B_2	0, 1, or 3 to keep, vary, or PUP.
	11-20	B1	Value for B_1	See Section III.C.3.a.
	21-30	B2	Value for B_2	If zero, lines 16 and 17 must be given. If not zero, this is the value for B_2 .
	31-40	dB1	Uncertainty for B_1	
	41-50	dB2	Uncertainty for B_2	

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
14: 16	1-5, A	WHAT	“XXPON”	This line and the next are present only if B_2 is zero in line 15.
	6, I to 10, I	IBI1 to IBI5	Flag to vary b_{i1} , b_{i2} , b_{i3} , b_{i4} , b_{i5} . One space per flag	0, 1, or 3 to keep, vary, or PUP.
	11-20, F to 71-80, F	BI1 to BI7	Values for b_{i1} , b_{i2} , b_{i3} , b_{i4} , b_{i5} , b_{i6} , and b_{i7} , 10 spaces for each.	See Eq. (III C3 a.2) for details.
14: 17	6, I	IBI6	Flag to vary b_{i6}	This line is present if and only if line 16 is also present.
	7, I	IBI7	Flag to vary b_{i7}	
	11-20, F to 71-80, F	dBI1 to dBI7	Uncertainties on b_{i1} , b_{i2} , b_{i3} , b_{i4} , b_{i5} , b_{i6} , and b_{i7}	
14: 18 etc.	Repeat Lines 15-17 for a total of 5 times at most.			
14: 19	1-5,A	WHAT	“BINS ”	Continuously varying channel width (bins per decade of energy). (Line may be omitted; line must be omitted if line 20 is included.) See Section III.C.3.a.
	6-10, I	Nbinpd	$1 < \text{Nbinpd} < 99999$	
14: 20	1-5, A	WHAT	“CHANN”	Channel crunch boundaries. (Line may be omitted. Line cannot be present if line 19 is present.)
	7, I	ICH	Flag to vary c	0, 1, or 3 to keep, vary, or PUP.
	11-20	ECRNCH	Highest energy for this channel width c (eV)	See Section III.C.3.a.
	21-30	CH	Values for c (ns)	
	31-40	dCH	Uncertainty for c (ns)	
14:21... Repeat line 20 as many times as needed. Lines 19 and 20 cannot be used together.				
14:Last (blank)				