

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
13:1	1-80, A	WHAT	“BACKGround functions”	See Section III.E.3.a. This card set could be put into the INPut file rather than PARAmeter file if no values are to be varied.
13:2	1-5, A	WHAT	“CONST” Type 1 in Eq. (III E3 a.3)	Line is present only if needed and may be repeated as needed.
	7, I	IFA	Flag to vary or PUP A	1 to vary, 3 to PUP, 0 otherwise
	11-20, F	A	Constant background (same units as data)	
	21-30, F	dA	Uncertainty on background	
	31-40, F	Emin	Minimum energy for which this background applies (eV)	Default energies are entire range of analysis.
	41-50, F	Emax	Maximum energy (eV)	
	51-60, F	FPL	Flight-path length (m)	This value of the flight-path length is used only if DIST was not given in card set 5 of INPut file or elsewhere.
13:3	1-5, A	WHAT	“EXPON”	This line is present only if needed, and may be repeated as needed.
	7, I	IFA	Flag to vary or PUP A	
	9, I	IFB	Flag to vary or PUP B	Type 2 in Eq. (III E3 a.3)
	11-20, F	A	Coefficient of exponential (units same as data)	See Section III.E.3.a for an explanation of this background function.
	21-30, F	dA	A priori uncertainty on A	
	31-40, F	B	Coefficient of time in exp (ns)	
	41-50, F	dB	A priori uncertainty on B	
	51-60, F	Emin	Minimum energy for which this background applies (eV)	Default energies are entire range of analysis.
	61-70, F	Emax	Maximum energy (eV)	
	71-80, F	FPL	Flight-path length (m)	This value of the flight-path length is used only if DIST was not given in card set 5 of the INPut file (or elsewhere).

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
13:4	1-5, A	WHAT	“POWER”	This line is present only if needed and may be repeated as needed. Type 3 in Eq. (III E3 a.3)
	7, I	IFA	Flag to vary or PUP A	
	9, I	IFB	Flag to vary or PUP B	
	11-20, F	A	Coeff. of power of time (units are $[\text{data}] \times [\text{ns}^{-B}]$)	See Section III.E.3.a for an explanation of this background function.
	21-30, F	dA	A priori uncertainty on A	
	31-40, F	B	Power (dimensionless)	
	41-50, F	dB	A priori uncertainty on B	Default energies are entire range of analysis.
	51-60, F	Emin	Minimum energy for which this background applies (eV)	
	61-70, F	Emax	Maximum energy (eV)	
13:5	71-80, F	FPL	Flight-path length (m)	This value of L is used only if flight-path length was not given earlier.
	1-5, A	WHAT	“EXPLN”	This line is present only if needed and is always followed by line # 6. The pair of lines may be repeated as needed. Type 4 in Eq. (III E3 a.3).
	7, I	IFA	Flag to vary or PUP A	
	9, I	IFB	Flag to vary or PUP B	
	10, I	IFC	Flag to vary or PUP C	See Section III.E.3.a for an explanation of this background function.
	11-20, F	A	Constant term in exponential (dimensionless)	
	21-30, F	dA	A priori uncertainty on A	
	31-40, F	B	Coef. of t in exponential (ns^{-1})	
	41-50, F	dB	A priori uncertainty on B	
13:6	51-60, F	C	Coefficient of $[\ln(t)]^{-1}$ in exponential ($\ln(\text{nsec})$)	
	61-70, F	dC	A priori uncertainty on C	Line 6 must follow each and every occurrence of line 5.
	11-20, F	Emin	Minimum energy for which this background applies (eV)	
	21-30, F	Emax	Maximum energy (eV)	This value of L is used only if flight-path length was not given earlier.
	31-40, F	FPL	Flight-path length (m)	

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
13:7	1-5, A	WHAT	“T-PNT” Type 5 in Eq. (III E3 a.5)	Point-wise linear function of time. If this line is present, it must occur at least twice. All occurrences must be contiguous in the file, and the times “T” must be increasing monotonically.
	7, I	IFA	Flag to vary or PUP A	1 to vary, 3 to PUP, 0 otherwise
	11-20, F	A	Value of this background at time T (same units as data)	Section III.E.3.a provides an explanation of this background function.
	21-30, F	dA	Uncertainty on A	
	31-40, F	T	Flight time for which this value of A applies (ns)	
	41-50, F	FPL	Flight-path length (m)	This value of the flight-path length is used only if DIST was not given in card set 5 of INPut file or elsewhere.
13:8	1-5, A, F	WHAT	“E-PNT” Type 6 in Eq. (III E3 a.6)	Point-wise linear function of energy. If this line is present, it must occur at least twice. All occurrences must be contiguous in the file, and the energies “E” must be increasing monotonically.
	7, I	IFA	Flag to vary or PUP A	1 to vary, 3 to PUP, 0 otherwise
	11-20, F	A	Value of this background at energy E (same units as data)	Section III.E.3.a provides an explanation of this background function.
	21-30, F	dA	Uncertainty on A	
	31-40, F	E	Energy for which this value of A applies (eV)	

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
13:9	1-5, A	WHAT	“TFILE” Type 7 in Eq. (III E3 a.7)	Point-wise linear function of time t_i , with times and values A_i to be stored in a separate file. Line 10 must follow this line; the two lines may be repeated as needed.
	7, I	IFB	Flag to vary or PUP B	1 to vary, 3 to PUP, 0 otherwise
	11-20, F	B	Multiplier for this background	Section III.E.3.a provides an explanation of this background function.
	21-30, F	dB	Uncertainty on B	
	31-40, F	FPL	Flight-path length (m)	This value of the flight-path length is used only if DIST was not given in card set 5 of INPut file or elsewhere.
13:10	1-70, A	FILE	Name of file containing the point-wise background. The first line in this file is a title, the other lines each contain values for two parameters (t_i and A_i), in free format.	A file name on line 10 must follow every occurrence of line 9.
13:11	1-5, A	WHAT	“EFILE” Type 8 in Eq. (III E3 a.8)	Point-wise linear function of energy E_i , with times and values A_i to be stored in a separate file. Line 12 must follow this line; the two lines may be repeated as needed.
	7, I	IFB	Flag to vary or PUP B	1 to vary, 3 to PUP, 0 otherwise
	11-20, F	B	Multiplier for this background	See Section III.E.3.a for details.
	21-30, F	dB	Uncertainty on B	
13:12	1-70, A	FILE	Name of file containing the point-wise background. The first line in this file is a title; the other lines each contain values for two parameters (E_i and A_i), in free format.	A file name on line 12 must follow every occurrence of line 11.

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
13: 13	1-5, A	WHAT	“AETOB ”	This line is present only if needed, and may be repeated as needed.
	7, I	IFA	Flag to vary or PUP A	Type 9 in Eq. (III E3 a.9); $A E^{-B}$
	9, I	IFB	Flag to vary or PUP B	
	11-20, F	A	Coefficient of E^{-B} (units same as data)	See Section III.E.3.a for an explanation of this background function.
	21-30, F	dA	A priori uncertainty on A	
	31-40, F	B	Exponent of E , where E is eV	
	41-50, F	dB	A priori uncertainty on B	
	51-60, F	Emin	Minimum energy for which this background applies (eV)	Default energies are entire range of analysis.
	61-70, F	Emax	Maximum energy (eV)	
13:Last (blank)				