

Table VI B.2 (continued)

C:L	P, T	Variable Name	Meaning (units)	Notes
3a:1	1-80, A	WHAT	“R-EXternal parameters follow”. This card set 3a is an alternative, not a supplement, to card set 3. It is not permitted to use both.	
3a:2	1-2, I	IGROUP	Spin group number	
	3, I	ICHN	Channel number	If zero, SAMMY assumes 1.
	4, I	ISE_{α}^{down}	Vary E_{α}^{down} ?	0 = no, 1 = yes, 3 = PUP
	5, I	ISE_{α}^{up}	Vary E_{α}^{up} ?	0 = no, 1 = yes, 3 = PUP
	6, I	$ISR_{con, \alpha}$	Vary $R_{con, \alpha}$?	0 = no, 1 = yes, 3 = PUP
	7, I	$ISR_{lin, \alpha}$	Vary $R_{lin, \alpha}$?	0 = no, 1 = yes, 3 = PUP
	8, I	$ISS_{con, \alpha}$	Vary $s_{con, \alpha}$?	0 = no, 1 = yes, 3 = PUP
	9, I	$ISS_{lin, \alpha}$	Vary $s_{lin, \alpha}$?	0 = no, 1 = yes, 3 = PUP
	10, I	$ISR_{q, \alpha}$	Vary $R_{q, \alpha}$?	0 = no, 1 = yes, 3 = PUP
	11-20, F	E_{α}^{down}	Logarithmic singularity below energy range (eV)	Parameters of the logarithmic parameterization of the external R-matrix for quantum numbers α (i.e., for IGROUP and ICHN), of the form given in Eq. (IIB1d.1).
	21-30, F	E_{α}^{up}	Logarithmic singularity above energy range (eV)	
	31-40, F	$R_{con, \alpha}$	Constant term	
	41-50, F	$R_{lin, \alpha}$	Linear Term (eV ⁻¹)	
	51-60, F	$s_{con, \alpha}$	Constant coefficient of logarithmic term (must be non-negative)	
	61-70, F	$s_{lin, \alpha}$	Linear coefficient of logarithmic term	
	71-80, F	$R_{q, \alpha}$	Quadratic term	
3a:3 etc.	Repeat line 2 as many times as desired. Include only those spin groups and channels for which you wish to parameterize the external R-matrix in this manner.			
3a: Last (blank)				