Table VI A.1 (continued)

C:L	P,T	Variable name	Meaning (units)	Notes
10.2: 1	Use this option for defining the spin groups only when one of the phrases "KEY-WORD PARTICLE-PAir definitions are given" or "PARTICLE-PAIR DEFINItions are given" occurs in card set 3, and when card set 4 or 4a is present.			
	1-3, I	JJ	Spin group number (consecutive, beginning with 1)	
	5, A	EXCL(JJ)	Flag to exclude this spin group from calculation	blank = include "X" = exclude
	8-10, I	NENT(JJ)	Number of entrance channels (must be > 0)	NENT + NEXT is the total number of particle channels for this spin group.
	13-15, I	NEXT(JJ)	Number of exit channels, excluding those which are also entrance channels (can be zero)	
	16-20, F	SPINJ(JJ)	Integer or half-integer spin for resonances in group J	Positive for even parity and negative for odd
	21-30, F	ABNDNC (JJ)	Isotopic abundance for this spin group	(May be overwritten in PARameter file)
10.2: 2	3-5, I	N	Channel number	
	6-7	(blank)		
	8-15, A	PPTYPE	Name of particle pair	Must be identical to one of the particle-pair names given in card set 4 or 4a
	18, I or A	IFEXCL (N,JJ)	1 if exclude this channel from final-state calculation for reaction cross section; 0 or blank if include. X (or x) to exclude this channel from inclusion anywhere in the calculation.	This flag defines the particular reaction to be calculated. (See card set 8 above.) This option ("X") should be used only for purposes of testing your input; it should not be used for regular production runs. See test case tr152 for examples using this feature.
	19-20, I	LSPIN (N,JJ)	Orbital angular momentum for channel	Non-negative integer

Table VI A.1 (continued)

C:L	P,T	Variable name	Meaning (units)	Notes
10.2: 2 cont.	21-30, F	CHSPIN (N,JJ)	Channel spin (integer or half-integer, sign implies parity)	Channel spin is the vector sum of the spins of the two particles in the channel.
	31-40, F	ENBND (N,JJ)	Boundary condition (eV) Used only if ISHIFT = 1 or SHift = Yes. Default: ENBND = - LSPIN	If ENBND > 0, then $B = S_l(\rho)$, where $\rho = ka$ and $\hbar k$ is the center-of-mass momentum for energy ENBND (Section II). If ENBND < 0, then B = ENBND.
	41-50, F	RDEFF (N,JJ)	Effective radius (fermi)	Needed here only if different from the value of the effective radius given in the particle-pair definitions. Is ignored if Radius parameters are given in the PARameter file.
	51-60, F	RDTRU (N,JJ)	True radius (fermi)	Needed here only if different from the value of the true radius given in the particle-pair definitions. Is ignored if Radius parameters are given in the PARameter file.
10.2: 3,4,etc.	Repeat Line 2 for a total of (NENT + NEXT) lines			
10.2: 5,6,etc.	Repeat Lines 1,2,3,4,etc, once for each spin group			
10.2: Last	(blank)			