

Table VI B.2 (continued)

C:L	P,S	Variable Name	Meaning (units)	Notes
Last C:1	1-80, A	WHAT	“RELATIVE uncertainties follow”	Give uncertainties for some resonance parameters. If card set “Last C” is used, values specified here will override uncertainty values given anywhere else except those in “Last B”.
Last C:2	1-11, F	E_λ (1)	Resonance energy, <i>exactly</i> as it appears in card set 1 above	
	12-22, F	RU(1,1)	Relative uncertainty on resonance energy	
	23-33, F	RU(2,1)	Relative uncertainty on Γ_γ	
	34-44, F	RU(3,1)	Relative uncertainty on Γ_{c1}	
	45-55, F	RU(4,1)	Relative uncertainty on Γ_{c2}	
	56-66, F	RU(5,1)	Relative uncertainty on Γ_{c3}	
	68, I	JU(1,1)	Flag specifying whether to use this uncertainty for E_λ	= 1 [use relative uncertainty given by RU(i,1)].
	70, I	JU(2,1)	Flag to use this unc. for Γ_γ	= 0 [use either the uncertainty given elsewhere, or use the default value].
	72, I to 76, I	JU(3,1) to (5,1)	Flag to use this unc. for Γ_{cx}	
	77-86	x	If negative, there is a continuation line for more channels	
Last C:3	12-22, F	RU(6,1)	Relative uncertainty on Γ_{c4}	Include as many as of the channels as needed here; there is no need to include trailing lines which contain only zeros.
	23-33, F	RU(7,1)	Relative uncertainty on Γ_{c5}	
	34-44, F	RU(8,1)	Relative uncertainty on Γ_{c6}	
	45-55, F	RU(9,1)	Relative uncertainty on Γ_{c7}	
	56-66, F	RU(10,1)	Relative uncertainty on Γ_{c8}	
	68, I to 76, I	JU(7,1) to (10,1)	Flag to use this unc. for Γ_{cx}	Repeat this line as needed.
Last C:4 etc		Repeat Lines 2,3 as many times as needed		
Last C:Last		(blank)		

Table VI B.2 (continued)

C:L	P,S	Variable Name	Meaning (units)	Notes
Last D:1	1-80, A	WHAT	“PRIOR uncertainties follow in key word format”	<p>Give uncertainties for some resonance parameters, in key word format.</p> <p>Examples are given in test case tr151.</p> <p>In all cases below, an equal sign must appear between the key word and the value of the parameter.</p>
Last D:2	<p>Valid key word for uncertainty: RELative uncertainty. The absolute uncertainty will be the product of this value times the absolute value of the parameter.</p> <p>Other valid key words for uncertainty: ABSOLute uncertainty or UNCertainty. These are both treated as absolute uncertainties.</p> <p>To give an energy range, use key words EMIN or EMAX followed by equal sign and value. This uncertainty will be applied only to parameters for resonances within this energy range.</p> <p>(Warning: a zero-value will be interpreted as undefined. To give values of EMIN or EMAX as zero, use instead a small but non-zero value.)</p> <p>To specify which parameters will have this uncertainty, two options are available; one or more of these can be used with each value of uncertainty.</p> <p>(1) Use key word GRoup followed (after equal sign) by a single group number, or by the word “All” (which indicates that this uncertainty applies to resonances in all spin groups). On the same line, use key word CHannel followed (after equal sign) by one or more channel numbers, and/or by the key word Energy or Gamma (indicating, respectively, the resonance energy and the capture width).</p> <p><u>Caution:</u> SAMMY will not read beyond column 80 on a line. If there are too many channels to fit everything on the same line, it is possible to simply repeat the GRoup information with the remainder of the CHannel numbers on an additional line.</p> <p>Another option is to put all of the GRoup and CHannel information on a line separate from the other key word information.</p>			

Table VI B.2 (continued)

C:L	P,S	Variable Name	Meaning (units)	Notes
Last D:2 cont.		<p>(2) If quantum numbers were defined using the particle-pair option, then it is possible to use the key word PP or PARTicle pair followed (after equal sign) by the name of the particle pair exactly as given in the INPut (or PARAmeter) file.</p> <p>Use key word “L” or “Orbital angular momentum” followed by an equal sign and one or more integer values (separated by commas or spaces), to specify the spin groups and channels (those with this particle pair and these values of angular momentum) for which this uncertainty should apply.</p> <p>It is possible (though not necessarily practical!) to use PP=Energy or PP=gamma to give the uncertainty on resonance energies or capture widths. In this case, values of <i>l</i> need not be given, and the uncertainty is assumed to apply to all spin groups.</p> <p>Conflicting input is permitted here. In the case of conflicts, SAMMY will assume that the first uncertainty to be specified is the one to be used.</p> <p>See Table VI B.1 for a simple itemization of valid key words.</p>		
Last D:3 etc		Repeat Line 2 as many times as needed.		
Last D>Last		(blank)		