DDOOD				Lege
PROGRAM	LEGEN	D		Lege
	=====	=		Lege
VERSION	80-1	(SEPTEMBER 1980	))	Lege
VERSION	84-1	(NOVEMBER 1984)	1	Lege
VERSION	86-1	(JANUARY 1986)	*CORRECTED BASED ON USER COMMENTS	Lege
			*FORTRAN-77/H VERSION	Lege
VERSION	87-1	(JANUARY 1987)	*CORRECTED BASED ON USER COMMENTS	Lege
		(JULY 1988)	*OPTIONINTERNALLY DEFINE ALL I/O	Lege
1210201	00 I	(0021 1900)	FILE NAMES (SEE, SUBROUTINE FILEIO	Lege
			FOR DETAILS).	_
			•	Lege
			*IMPROVED BASED ON USER COMMENTS.	Lege
VERSION	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Lege
			INSURE PROGRAM WILL NOT DO ANYTHING	Lege
			CRAZY.	Lege
			*UPDATED TO USE NEW PROGRAM CONVERT	Lege
			KEYWORDS.	Lege
			*ADDED LIVERMORE CIVIC COMPILER	Lege
			CONVENTIONS.	Lege
VERSION	92-1	(JANUARY 1992)	*FOR ANGULAR DISTRIBUTIONS CALCULATED	Lege
		,,	FROM LEGENDRE COEFFICIENTS, INTERVAL	Lege
			HALF TO CONVERGENCE.	Lege
			*UPDATED BASED ON USER COMMENTS	-
			*ADDED FORTRAN SAVE OPTION	Lege
				Lege
			*ADDED SELECTED OF DATA TO PROCESS	Lege
			BY MAT/MF/MT/ENERGY RANGES.	Lege
			*WARNINGTHE INPUT PARAMETER FORMAT	Lege
			HAS BEEN CHANGED - FOR DETAILS SEE	Lege
			BELOW.	Lege
VERSION	92-2	(SEPT. 1992)	*CORRECTED PROCESSING OF ISOTROPIC	Lege
			ANGULAR DISTRIBUTIONS	Lege
VERSION	94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES	Lege
			TO ALLOW ACCESS TO FILE STRUCTURES	Lege
			(WARNING - INPUT PARAMETER FORMAT	Lege
			HAS BEEN CHANGED)	Lege
			•	-
			*CLOSE ALL FILES BEFORE TERMINATING	Lege
			(SEE, SUBROUTINE ENDIT)	Lege
VERSION	96-I	(JANUARY 1996)	*COMPLETE RE-WRITE	Lege
			*IMPROVED COMPUTER INDEPENDENCE	Lege
			*ALL DOUBLE PRECISION	Lege
			*ON SCREEN OUTPUT	Lege
			*UNIFORM TREATMENT OF ENDF/B I/O	Lege
			*IMPROVED OUTPUT PRECISION	Lege
			*INCREASED MAX. POINTS FROM 5,000	Lege
			то 20,000.	Lege
VERSION	99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	Lege
			POINT READ FOR MORE DIGITS	Lege
			*UPDATED TEST FOR ENDF/B FORMAT	-
			-	Lege
			VERSION BASED ON RECENT FORMAT CHANGE	-
			*GENERAL IMPROVEMENTS BASED ON	Lege
			USER FEEDBACK	Lege
		(FEBRUARY 2000)	*GENERAL IMPROVEMENTS BASED ON	Lege
VERS. 20	00-1	,		
			USER FEEDBACK	-
		(MARCH 2001)	*UPDATED TO HANDLE COMBINATIONS OF	-
				Lege
			*UPDATED TO HANDLE COMBINATIONS OF	Lege Lege
VERS. 20	01-1		*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY	Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.	Lege Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001) (MAY 2002)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY. *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE FOR COMMON	Lege Lege Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001) (MAY 2002)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY. *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE FOR COMMON *ZERO ANGULAR DISTRIBUTIONS ARE O.K.	Lege Lege Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001) (MAY 2002)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY. *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE FOR COMMON *ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS	Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001) (MAY 2002)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K.</li> <li>(PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K.</li> </ul>	Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20	01-1 02-1	(MARCH 2001) (MAY 2002)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE</li> </ul>	Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY. *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE FOR COMMON *ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE</li> </ul>	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY. *OPTIONAL INPUT PARAMETERS *ADDED INCLUDE FOR COMMON *ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)</li> <li>*INCREASED MAXIMUM NUMBER OF LEGENDRE</li> </ul>	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)</li> <li>*INCREASED MAXIMUM NUMBER OF LEGENDRE COEFFICIENTS FROM 50 TO 500.</li> </ul>	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)</li> <li>*INCREASED MAXIMUM NUMBER OF LEGENDRE COEFFICIENTS FROM 50 TO 500.</li> <li>WARNING - THE RECURSION RELATIONSHIP FOR LEGENDRE POLYNOMIALS BECOMES</li> </ul>	Lege Lege Lege Lege Lege Lege Lege Lege
VERS. 20 VERS. 20 VERS. 20	01-1 02-1 04-1	(MARCH 2001) (MAY 2002) (MARCH 2004)	<ul> <li>*UPDATED TO HANDLE COMBINATIONS OF LEGENDRE COEFFICIENTS AT LOW ENERGY AND TABULATED DATA AT HIGH ENERGY.</li> <li>*OPTIONAL INPUT PARAMETERS</li> <li>*ADDED INCLUDE FOR COMMON</li> <li>*ZERO ANGULAR DISTRIBUTIONS ARE O.K. (PREVIOUSLY ZERO OR NEGATIVE WAS TREATED AS AN ERROR - ZERO IS O.K. FOR SOME REACTIONS OVER SOME COSINE RANGES)</li> <li>*INCREASED MAXIMUM NUMBER OF LEGENDRE COEFFICIENTS FROM 50 TO 500. WARNING - THE RECURSION RELATIONSHIP</li> </ul>	Lege Lege Lege Lege Lege Lege Lege Lege

				*INCREASED MAX. POINTS FROM 60,000	Legend
				TO 240,000.	Legend
VERS.	2007-2	(MAY	2007)	*CORRECTED SIZE OF XMUBASE IN ANGLEN	Legend
				FOR INCREASED NUMBER OF COEFFICIENTS.	Legend
	2010-1	-	2010)	*General update based on user feedback	-
VERS.	2012-1	(Aug.	2012)	*added CODENAME	Legend
				*32 and 64 bit Compatible *Added ERROR stop	Legend Legend
VERS.	2015-1	(Jan.	2015)	*Extended OUT9	Legend
		•	•	*Replaced ALL 3 way IF Statements.	Legend
VERS.	2015-2	(Oct.	2015)	*OPEN optional LEGEND.INP after	Legend
				OPENING LEGEND.LST.	Legend
				*Coefficient checks are turned OFF	Legend
				if LEGEND.INP is missing = this agrees with BEST INPUT.	Legend Legend
				*Switched from LISTO to LISTO9	Legend
				(no 10 digit output)	Legend
VERS.	2016-1	(May	2016)	*Changed multiple IF statement to	Legend
				accommodate compiler optimizer	Legend
				*Increased Maximum allowed points per	Legend
				angular distribution from 900 to	Legend
VEDC	2017-1	(Mau	2017)	MAXPOINT (currently 240,000) *More tests. Expanded to handle new	Legend Legend
vero.	2011-1	(may	2017)	R-M (LRF=7) detailed angular	Legend
				distributions.	Legend
				*Max. points increased to 3,000,000.	Legend
				*All floating input parameters changed	-
				to characte input + IN9 conversion.	Legend
				*If near COS=0 - set = 0 *Default changed to negative fixes.	Legend Legend
				*At end print tallies for,	Legend
				1-Number of negative distributions.	Legend
				2-Number of duplicate or out-of-order	Legend
				Ehnergies	Legend
	2018-1	-	2018)	*Added on-line output for ALL ENDERROR	
VERS.	2019-1	(June	2019)	*Additional Interpolation Law Tests	Legend
				*Checked Maximum Tabulated Energy to insure it is the same for all MTs -	Legend Legend
				if not, print WARNING messages.	Legend
				*Corrected END Histogram linearized -	Legend
				Previously assumed $Y = 0$ and deleted	Legend
				Now output whatever the Y value.	Legend
OFFICE	NO TNI07			IBUTED BY	Legend
					Legend Legend
THE N	UCLEAR I	DATA SE	CTION		Legend
INTER	NATIONAI	L ATOMI	C ENERGY	AGENCY	Legend
	BOX 100				Legend
	0, VIENN	NA, AUS	TRIA		Legend
EUROP	E				Legend
ORTGT	NALLY WE	STUTEN	BY		Legend Legend
					Legend
Dermo	tt E. Ci	llen			Legend
					Legend
			ORMATION		Legend
					Legend
	tt E. Cu Hudson V				Legend Legend
	more, CA				Legend
U.S.A					Legend
-	hone 92				Legend
			n1@Comcas		Legend
Websi	te Re	edCulle	n1.net/H	DMEPAGE.NEW	Legend
PURPO	SE				Legend Legend
LOKEO					Legend
		NEARLY	INTERPOL	ABLE TABULATED ANGULAR DISTRIBUTIONS	Legend
CALCU START	LATE LIN ING FROM	M DATA	IN THE EN	NDF/B FORMAT. ANGULAR DISTRIBUTIONS	Legend Legend
CALCU START MAY B	LATE LIN ING FROM E DESCRI	M DATA IBED IN	IN THE EN THE ENDI		-

OPTIONS) TO EITHER COPY EACH TYPE OF DATA OR TO PROCESS IT AT Legend AS FOLLOWS, Legend Legend (1) ANGULAR DISTRIBUTION IS ISOTROPIC AT ALL ENERGIES (LTT=0) Legend \_\_\_\_\_ Legend IN THIS CASE THE INPUT DATA DOES NOT INCLUDE ANY ANGULAR Legend DISTRIBUTIONS. A SECTION MERELY CONTAINS A FLAG TO INDICATE Legend THE ANGULAR DISTRIBUTION IS ISOTROPIC AT ALL ENERGIES. IN THIS Legend CASE THE SECTION IS OUTPUT IN EXACTLY THE SAME FORM IN WHICH IT Legend WAS READ FROM THE INPUT. Legend Legend (2) ANGULAR DISTRIBUTIONS GIVEN BY LEGENDRE COEFFICIENTS (LTT=1) Legend ------Legend LEGENDRE COEFFICIENTS ARE GIVEN AT A SERIES OF ENERGIES. AN Legend INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES. THE INTERPOLATION Legend LAW BETWEEN ENERGIES IS COPIED AS INPUT (I.E., NO ATTEMPT IS Legend MADE TO LINEARIZE THE VARIATION WITH ENERGY). FOR EACH ENERGY AT Legend WHICH LEGENDRE COEFFICIENTS ARE GIVEN A LINEARLY INTERPOLABLE Legend ANGULAR DISITRIBUTION IS RECONSTRUCTED IN THE SYSTEM IN WHICH THE Legend THE COEFFICIENTS ARE GIVEN (I.E., CM OR LAB - NO ATTEMPT IS MADE Legend TO CONVERT FROM ONE SYSTEM TO THE OTHER). A MAXIMUM OF 50 LEGENDRE Legend COEFFICIENTS IS ALLOWED. REGARDLESS OF THE NUMBER OF COEFFICIENTS Legend INPUT THE PROGRAM WILL ONLY USE COEFFICIENTS UP TO THE LAST ORDER Legend AT WHICH THE COEFFICIENTS ARE NON-ZERO (E.G. IF COEFFICIENTS P1 Legend THROUGH P12 ARE READ, BUT P9=P10=P11=P12=0.0, THE PROGRAM WILL Legend ONLY USE COEFFICIENTS UP TO P8). IF OVER 50 NON-ZERO COEFFICIENTS Legend ARE READ ONLY THE FIRST 50 WILL BE USED. Legend Legend (2) ANGULAR DISTRIBUTIONS IS TABULATED (LTT=2) Legend \_\_\_\_\_ Legend ANGULAR DISTRIBUTIONS ARE GIVEN AT A SERIES OF ENERGIES. AN Legend INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES AND A SECOND Legend INTERPOLATION LAW IS GIVEN AT EACH ENERGY TO INTERPOLATE BETWEEN Legend THE POINTS IN EACH TABULATED DISTRIBUTION. AT EACH ENERGY THE Legend ANGULAR DISTRIBUTION WILL BE CONVERTED TO LINEARLY INTERPOLABLE Legend FORM. THE INTERPOLATION BETWEEN ENERGIES IS OUTPUT EXACTLY AS Legend INPUT. THE INTERPOLATION LAW AT EACH ENERGY IS OUTPUT TO INDICATE Legend THE NOW LINEARLY INTERPOLABLE ANGULAR DISTRIBUTION. Legend Legend (3) LEGENDRE COEFFICIENTS AND TABULATED (LTT=3) Legend \_\_\_\_\_ Legend ENDF-102 SAYS THIS SHOULD BE LTT=4, BUT ALL OF THE EVALUATIONS Legend IN ENDF/B-VI, RELEASE 7, USE LTT=3? THIS CODE WILL TREAT THESE Legend AS LTT=4 - SEE BELOW. Legend Legend (4) LEGENDRE COEFFICIENTS AND TABULATED (LTT=4) Legend \_\_\_\_\_ Legend THIS IS A COMBINATION OF (1) AND (2) DESCRIBED ABOVE. THE Legend LEGENDRE DATA IS ALWAYS GIVEN FIRST, FOR LOWER ENERGIES, Legend FOLLOWED BY TABULATED ANGULAR DISTRIBUTIONS, FOR HIGHER ENERGIES. Legend Legend THIS TYPE OF DATA CAN ONLY BE COPIED OR ALL CONVERTED TO Legend TABULATED (LTT=2). Legend Legend POINT VALUES - NORMALIZED VS. UNNORMALIZED Legend \_\_\_\_\_ Legend THE VALUE OF AN ANGULAR DISTRIBUTION AT ANY COSINE WILL BE Legend CORRECTLY CALCULATED BY THIS CODE, BASED EITHER DIRECTLY ON THE Legend ANGULAR DISTRIBUTION, OR ON THE SUM OF THE CONTRIBUTING LEGENDRE Legend MOMENTS . Legend Legend ENDF/B ANGULAR DISTRIBUTIONS ARE BY DEFINITION NORMALIZED WHEN Legend INTEGRATED OVER COSINE. THEREFORE THIS CODE WILL NORMALIZE EACH Legend ANGULAR DISTRIBUTION BEFORE IT IS OUTPUT. THE OUTPUT REPORT FROM Legend THIS CODE WILL INDICATE THE NORMALIZATION FACTOR USED. Legend Legend THE REASON THAT AN ANGULAR DISTRIBUTION MAY NOT BE NORMALIZED IS Legend DUE TO THE APPROXIMATION OF CREATING LINEARLY INTERPOLABLE Legend TABULATED ANGULAR DISTRIBUTIONS - THE MORE ACCURATELY THIS IS Legend DONE THE CLOSER THE NORMALIZATION FACTOR WILL BE TO UNITY. AS YOU Legend DECREASE THE ALLOWABLE ERROR THE NORMALIZED VALUES WILL APPROACH Legend

	Toward
THE CORRECT POINT VALUES CALCULATED BY THE CODE.	Legend Legend
SINCE THE DATA IS NORMALIZED PRIOR TO OUTPUT THE RESULTS IN THE	Legend
ENDF/B FORMAT MAY DIFFER SLIGHTLY FROM VALUES REFERRED TO BE ERROR	Legend
MESSAGES, ETC. PRINTED BY THE CODE DURING EXECUTION. IN ALL CASES	Legend
THE VALUES PRINTED BY THE CODE IN ERROR MESSAGES, ETC. SHOULD BE	Legend
CONSIDERED TO BE THE CORRECT VALUES AND THE OUTPUT TABULATED	Legend
ANGULAR DISTRIBUTIONS APPROXIMATE DUE TO THE RE-NORMALIZATION - TO RE-ITERATE, THE OUTPUT TABULATED VALUES ARE APPROXIMATE DUE	Legend Legend
TO THE APPROXIMATIONS USED IN CONSTRUCTING LINEAR INTERPOLABLE	Legend
ANGULAR DISTRIBUTIONS TO WITHIN SOME ALLOWABLE TOLERANCE.	Legend
	Legend
ELIMINATION OF NEGATIVE VALUES	Legend
	Legend
THE RECONSTRUCTED ANGULAR DISTRIBUTION WILL BE TESTED AND IF IT	Legend
IS NEGATIVE AT ONE OR MORE COSINES AN ERROR MESSAGE WILL BE OUTPUT AND BASED ON THE INPUT OPTION SELECTED ONE OF THE FOLLOWING	Legend
CORRECTIVE ACTIONS WILL BE TAKEN (SEE, INPUT OPTIONS),	Legend
(1) NO CORRECTION	Legend
(2) CHANGE INDIVIDUAL LEGENDRE COEFFICIENTS (EACH BY LESS THAN	Legend
1.0 PER-CENT) UNTIL THE RECONSTRUCTED ANGULAR DISTRIBUTION	Legend
IS POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). THE ALLOWABLE	Legend
PER-CENT CHANGE IN COEFFICIENTS AND MINIMUM CROSS SECTION CAN BE CHANGED BY INPUT.	Legend
(3) CHANGE ALL LEGENDRE COEFFICIENTS TO FORCE DISTRIBUTION TO BE	Legend Legend
POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). WITH THIS OPTION	Legend
THERE IS NO RESTRICTION ON THE AMOUNT THAT EACH COEFFICIENT	Legend
IS CHANGED AND AS SUCH THIS OPTION SHOULD BE USED WITH	Legend
CAUTION AND ONLY AS A LAST RESORT IF NO OTHER APPROACH CAN	Legend
BE USED TO MAKE THE DISTRIBUTION POSITIVE.	Legend
	Legend
OUTPUT	Legend Legend
THE USER MAY REQUEST OUTPUT OF EITHER,	Legend
(1) TABULATED VALUES - POSSIBLY CORRECTED TO ELIMINATE NEGATIVE	Legend
VALUES. THE TABULATED DISTRIBUTION WILL BE NORMALIZED BEFORE	Legend
OUTPUT.	Legend
(2) LEGENDRE COEFFICIENTS - POSSIBLY CORRECTED TO ELIMINATE	Legend
NEGATIVE VALUES AND WITHOUT HIGHER ORDER ZERO COEFFICIENTS.	Legend
BY DEFINITION DISTRIBUTIONS DEFINED BY LEGENDRE COEFFICIENTS ARE NORMALIZED TO UNITY.	Legend Legend
ARE NORMALIZED TO UNITT.	Legend
(3) ANGULAR DISTRIBUTIONS GIVEN BY A TABULATION (LTT=2)	Legend
	Legend
TABULATED ANGULAR DISTRIBUTIONS ARE GIVEN AT A SERIES OF ENERGIES.	Legend
AN INTERPOLATION LAW IS GIVEN BETWEEN ENERGIES. THE INTERPOLATION	Legend
LAW BETWEEN ENERGIES IS COPIED AS INPUT (I.E., NO ATTEMPT IS	Legend
MADE TO LINEARIZE THE VARIATION WITH ENERGY). FOR EACH ENERGY AT AT WHICH TABULATED DATA ARE GIVEN A LINEARLY INTERPOLABLE ANGULAR	Legend Legend
DISTRIBUTION IS CONSTRUCTED IN THE SYSTEM IN WHICH THE TABULATED	Legend
DATA ARE GIVEN (I.E., CM OR LAB - NO ATTEMPT IS MADE TO CONVERT	Legend
FROM ONE SYSTEM TO THE OTHER). A MAXIMUM OF 60000 POINTS IS ALLOWE	Legend
TO REPRESENT THE ANGULAR DISTRIBUTION AT EACH ENERGY.	Legend
	Legend
ELIMINATION OF NEGATIVE VALUES	Legend
THE RECONSTRUCTED ANGULAR DISTRIBUTION WILL BE TESTED AND IF IT	Legend Legend
IN RECONSTRUCTED ANGULAR DISTRIBUTION WILL BE TESTED AND IF IT IS NEGATIVE AT ONE OR MORE COSINES AN ERROR MESSAGE WILL BE OUTPUT	
AND BASED ON THE INPUT OPTION SELECTED ONE OF THE FOLLOWING	Legend
CORRECTIVE ACTIONS WILL BE TAKEN (SEE, INPUT OPTIONS),	Legend
(1) NO CORRECTION	Legend
(2) CHANGE ALL TABULATED VALUES TO FORCE DISTRIBUTION TO BE	Legend
POSITIVE (MINIMUM MORE THAN 1 MILLI-BARN). THE MINIMUM VALUE	Legend
MAY BE CHANGED BY INPUT. WITH THIS OPTION THERE IS NO RESTRICTION ON THE AMOUNT THAT EACH VALUE IS CHANGED AND AS	Legend Legend
SUCH THIS OPTION SHOULD BE USED WITH CAUTION AND ONLY AS A	Legend
LAST RESORT IF NO OTHER APPROACH CAN BE USED TO MAKE THE	Legend
DISTRIBUTION POSITIVE.	Legend
	Legend
OUTPUT	Legend
	Legend

TABULATED DISTRIBUTION WILL BE NORMALIZED TO UNITY BEFORE OUTPUT.	Legend Legend
CORRECTING NEGATIVE ANGULAR DISTRIBUTION	Legend Legend
IF AN ANGULAR DISTRIBUTION IS NEGATIVE AN ERROR MESSAGE WILL BE PRINTED AND THE USER MAY DECIDE (BASED ON INPUT OPTION) TO, (1) NOT PERFORM ANY CORRECTIVE ACTION.	Legend Legend Legend Legend
(2) FOR TABULATED DISTRIBUTIONS - ADD THE SAME VALUE TO EACH POINT VALUE SUCH THAT WHEN THE DISTRIBUTION IS RE-NORMALIZED THE MINIMUM VALUE IS 0.001 (1 MILLI-BARN). THE MINIMUM VALUE CAN	-
BE CHANGED BY INPUT. WARNINGEXCEPT FOR SELECTION OF THE MINIMUM VALUE (BY INPUT) THE USER HAS NO CONTROL OVER HOW MUCH THE DISTRIBUTION IS CHANGED. THEREFORE THIS OPTION SHOULD	Legend Legend
BE USED WITH CAUTION. (3) FOR LEGENDRE COEFFICIENTS ONE OF TWO OPTIONS MAY BE SELECTED,	Legend Legend
(A) CHANGE INDIVIDUAL COEFFICIENTS (NO ONE COEFFICIENT BY MORE THAN 1 PER-CENT) TO MAKE THE DISTRIBUTION POSITIVE WITH A MINIMUM VALUE OF 0.001 (1 MILLI-BARN). THE MAXIMUM PER-CENT	Legend Legend Legend
CHANGE IN EACH COEFFICIENT AND MINIMUM VALUE MAY BE CHANGED BY INPUT. INPUT THE PROGRAM CANNOT MAKE THE DISTRIBUTION POSITIVE BY CHANGING EACH COEFFICIENT BY UP TO THE MAXIMUM	Legend Legend Legend
ALLOWABLE AMOUNT, THE ORIGINAL ANGULAR DISTRIBUTION OR COEFFICIENTS WILL BE OUTPUT. ONLY IN THE LATTER CASE SHOULD ONE CONSIDER USING OPTION (B) DESCRIBED BELOW.	Legend Legend Legend
(B) LOGICALLY ADD THE SAME VALUE TO EACH POINT VALUE SUCH THAT WHEN THE DISTRIBUTION IS RE-NORMALIZED THE MINIMUM VALUE IS 0.001 (1 MILLI-BARN). THIS IS EQUIVALENT AT INCREASING PO	Legend Legend Legend
BY A CERTAIN AMOUNT AND RE-NORMALIZATION IS EQUIVALENT TO THEN DIVIDING EACH COEFFICIENT BY A CERTAIN AMOUNT. THEREFORE, WHAT IS PHYSICALLY DONE BY THE PROGRAM IS TO DIVIDE EACH	Legend Legend Legend
COEFFICIENT BY THE SAME AMOUNT. WARNINGEXCEPT FOR SELECTION OF THE MINIMUM VALUE (BY INPUT) THE USER HAS NO CONTROL OVER HOW MUCH THE DISTRIBUTION IS CHANGED. THEREFORE THIS OPTION	Legend Legend Legend
SHOULD BE USED WITH CAUTION.	Legend Legend
WARNING MESSAGES FROM PROGRAM	Legend
	Legend
THE WARNING MESSAGES PRINTED BY THIS PROGRAM SHOULD ONLY BE CONSIDERED TO BE EXACTLY THATWARNINGSNOT AN ABSOLUTE JUDGEMENT BY THIS PROGRAM THAT THERE IS SOMETHING WRONG WITH THE DATA. WHEN	Legend Legend
THE WARNING MESSAGES PRINTED BY THIS PROGRAM SHOULD ONLY BE CONSIDERED TO BE EXACTLY THATWARNINGSNOT AN ABSOLUTE JUDGEMENT	Legend Legend Legend Legend Legend Legend
THE WARNING MESSAGES PRINTED BY THIS PROGRAM SHOULD ONLY BE CONSIDERED TO BE EXACTLY THATWARNINGSNOT AN ABSOLUTE JUDGEMENT BY THIS PROGRAM THAT THERE IS SOMETHING WRONG WITH THE DATA. WHEN WARNING MESSAGES ARE PRINTED EXAMINE THE DATA AND EITHER TAKE NO ACTION (IF YOU FEEL THAT THE DATA IS O.K.) OR CORRECT THE DATA	Legend Legend Legend Legend Legend Legend Legend Legend
THE WARNING MESSAGES PRINTED BY THIS PROGRAM SHOULD ONLY BE CONSIDERED TO BE EXACTLY THATWARNINGSNOT AN ABSOLUTE JUDGEMENT BY THIS PROGRAM THAT THERE IS SOMETHING WRONG WITH THE DATA. WHEN WARNING MESSAGES ARE PRINTED EXAMINE THE DATA AND EITHER TAKE NO ACTION (IF YOU FEEL THAT THE DATA IS O.K.) OR CORRECT THE DATA (IF YOU FEEL THAT THE DATA IS INCORRECT AND YOU CAN CORRECT IT). VALIDITY OF MODIFIED DATA 	Legend Legend Legend Legend Legend Legend Legend Legend Legend Legend
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<ul> <li>WHICH CASE THE PROGRAM WILL USE THE MAXIMUM ALLOWABLE NUMBER OF POINTS = 60000.</li> <li>23-33 I11 TABULATED ANGULAR DISTRIBUTION TREATMENT</li> <li>= 0 - COPY TABLES</li> <li>= 1 - LINEARIZE TABLES (OUTPUT TABLES)</li> <li>= 2 - LINEARIZE AND THIN TABLES (OUTPUT TABLES)</li> <li>ie = 2 - LINEARIZE AND THIN TABLES (OUTPUT TABLES)</li> <li>ie = 0 - COPY LEGENDRE COEFFICIENTS</li> <li>= 0 - COPY LEGENDRE COEFFICIENTS</li> <li>= 1 - RECONSTRUCT TABULATED ANGULAR DISTRIBUTION.</li> <li>(OUTPUT TABLES).</li> <li>= 2 - RECONSTRUCT TABULATED ANGULAR DISTRIBUTION.</li> <li>(OUTPUT LEGENDRE COEFFICIENTS).</li> <li>45-55 I11 NEGATIVE ANGULAR DISTRIBUTION TREATMENT.</li> <li>= 0 - NO CORRECTION</li> <li>= 1 - TABULATE DATA - NO CORRECTION.</li> <li>LEGENDRE DATA - CHANGE COEFFICIENTS</li> <li>(NONE BY MORE THAN 1.0 PER-CENT - CAN BE</li> <li>(ANGED BY INPUT).</li> <li>= 2 - FORCE DISTRIBUTIONS TO BE POSITIVE</li> <li>(TABULATED OR LEGENDRE DATA).</li> <li>56-66 I11 LEGENDRE COEFFICIENT VARIATION TEST FLAG.</li> <li>= 0 - TEST TESTS.</li> <li>= 1 - PERFORM TESTS,</li> </ul>	agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend agend
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LECENDRE ORDER. Legend 2 1-60 60A1 ENPC/S INUT DATA FILENAME (STANDARD OPTION = ENPFB.IN) 3 1-60 60A1 ENPC/S OUTED TATA FILENAME (STANDARD OPTION = ENPFB.OUT) 4-N 1-6 16 LOWER MAT LIMIT 1-1 31 LOWER MAT LIMIT 1-2-17 15 UPEER MAT LIMIT 1-2-17 15 UPEER MAT LIMIT 1-2-17 15 UPEER MAT LIMIT 1-2-22 13 UPEER MAT LIMIT 1-2-22 13 UPEER MAT LIMIT 1-2-33 511.4 LOWER ENERGY LIMIT 1-2-33 511.4 LOWER ENERGY LIMIT 1-2-33 511.4 LOWER ENERGY LIMIT 1-2-44 E11.4 UPEER ENERGY LIMIT 1-2-44 E11.4 UPEER ENERGY LIMIT 1-2-45 511.4 MINIMM ALLOWABLE VALUE OF ANGULAR DISTRIBUTION 5-6-66 E11.4 ALLOWABLE FRACTION (NOT FER-CENT) CHANGE IN ANY ONTO TO 100 MAT/MT/E RANGES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMM SIGMA OF SUCCESS 4-44 E11.4 ALLOWABLE FRACTION (NOT FER-CENT) CHANGE IN ANY ONTO TO 100 MAT/MT/E RANGES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMM SIGMA OF SUCCESS 4-40 DISTRIBUTION FOSITIVE (AND AT LEAST EQUAL TO THE 1-2-40 DISTRIBUTION SIGMA OF SUCCESS 4-41 MAY/MT/E RANGES ARE NAY BE INFUT, WILL BE TREATED BY ALLOWABLE MINIMUM SIGMA OF SUCCESS 4-41 MAY/MT/E RANGES MAY BE INFUT, WILL BE TREATED BY ALLOWABLE MINIMUM SIGMA OF SUCCESS 4-41 MAY/MT/E RANGES ARE NOT ANULATED DATA TO OBTIN 4-44 FILE 4-44 FILE INFUT NO.1 4-45 MAPLE INFUT NO.2 4-45 MAPLE INFUT NO.2 4					UNCTION OF ENERGY. CIENTS DECREASE AS A FUNCTION	Legend OF Legend
2       1-60       GOAL ENDY/S INPUT DATA FILENAME       Legend         3       1-60       GOAL ENDY/S OUTPUT DATA FILENAME       Legend         4       1-6       IG UNDER MALLIMIT       Legend         7-8       12       LOWER MALLIMIT       Legend         9-11       13       LOWER MALLIMIT       Legend         12-17       IG UPER MALLIMIT       Legend         12-17       IG UPER MALLIMIT       Legend         12-17       IG UPER MALLIMIT       Legend         23-33       E11.4       LOWER MELINIT       Legend         34-44       E11.4       UPER NEEGY LIMIT       Legend         35-55       E11.4       ALLONABLE FALCION (NOT PAR-CENT CHANCE IN NOT HE LEGENG       Legend         005-66       E11.4       ALLONABLE FALCION (NOT PAR-CENT SUDIAL TO THE LEGENG       Legend         005       FILOPE ENERGY LIMIT       Legend       Legend         005       FILOPE ENERGY LIMIT       Legend       Legend         006       FILOPE ENERGY LIMIT       Legend       Legend         007       TO ON ARA/MT/E RANGES MAY BE INPUT, EACH SPCILAR TO THE       Legend         11       FILOPENER COEFFICIENT SUN       Legend       Legend         110 <td< td=""><td></td><td></td><td></td><td>LEGEND</td><td>RE ORDER.</td><td></td></td<>				LEGEND	RE ORDER.	
<pre>(STANDARD OFTION = ENDIFE.IN)</pre>	2	1-60	60A1			_
<ul> <li>1 -60 GOAL ENDY/S COUPEDT DATA FILENAME Legend (STANARD OPTION = ENDYB.OUT)</li> <li>Legend 4-N 1-6 IG LOWER MAILIMIT</li> <li>Legend 7-8 I2 LOWER MAILIMIT</li> <li>Legend 12-17 IG UPER MAILIMIT</li> <li>Legend 23-33 EIL 4 LOWER MELINIT</li> <li>Legend 45-55 EIL 4 MILIMER STARL LIMIT</li> <li>Legend 45-55 EIL 4 MILIMARIE VALUE OF ANGULAR DISTRIBUTION Isegend 00000 CONFERENCE LIMIT</li> <li>Legend 45-55 EIL 4 MILIMARIE VALUE OF ANGULAR DISTRIBUTION NORE LEGENDRE COEFFICIENT TO MARE THE ANGULAR Legend 00000 CONFELECTION (NOT PRE-CENT) CANNEE IN AND LEGEND 00000 CONFELECTION (NOT PRE-CENT) CANNEE IN AND LEGEND 00000 CONFELECTION (NOT PRE-CENT) CANNEE IN AND LEGEND 00000 CONFELECTION (NOT PRE-CENT) CANNEE IN LEGEND 00000 CONFELECTION (NOT PRE-CENT) CANNEE IN LEGEND 00000 CONFELECTION (NOT PRE-CENT)</li> <li>MULTON MILIMAN SIGNA AND MAXIMUM CHANGE IN CONFFICIENTS.</li> <li>Legend ALLOWARLE MINIMUM SIGNA AND MAXIMUM CHANGE IN CONFFICIENTS.</li> <li>Legend MILIMUM OF CONCRECTED INFOLUENTS.</li> <li>Legend MILIMUM SIGNA AND MAXIMUM CHANGE IN CONFFICIENTS INCUT.</li> <li>LEGENDRE CONFFICIENTS AND TABULATED DATA TO GAUNA Legend NOING USED TO CORRECT DISTRIBUTION THEM TARE INGALINE MULAR Legend NOING SUBLE ANTIMICH AND ALLOWARLE SIGNA (SPECIFIED Legend NOUTS SUBCIFY MAT/MY/E RANGES.</li> <li>LEAST AS LARGE AS THE MINIMUM ALLOWARLE DATA TO GATANL Legend NOUTS SUBCIFY MAT/MY/E RANGES.</li> <li>LEAST AS LARGE AS THE MINIMUM ALLOWARLE DATA TO GATANL Legend NOUTS SUBCIFY MAT/MY/E RANGES.</li> <li>LEAST AS LARGE AS THE MINIMUM ALLOWARLE DANGULAR DISTRIBUTION Legen</li></ul>						-
<pre>(STANDARD OFICH = ENDER.OUT)   Legend 4-N 1-6 16 LOWER MF LIMIT   Legend 9-11 33 LOWER MF LIMIT   Legend 12-17 16 UPER MAILIMIT   Legend 12-17 16 UPER MF LIMIT   Legend 12-17 15 UPER MF LIMIT   Legend 12-17 15 UPER MF LIMIT   Legend 13-13 21 1/ EURER ENERGY LIMIT   Legend 13-44 EIL.4 UPER ENERGY LIMIT   Legend 55-66 EIL.4 MINIMM ALLOWABLE VALUE OF ANGULAR DISTRIBUTION Legend 55-66 EIL.4 ALLOWABLE FACTION (NOT PER-CENT) CHANCE IN ANY ON LEGENDRE COEFFICIENT ON ARE THE ANGULAR Legend Legend 10-70 100 MAT/MT/E RANGES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMM SIGMA OF 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10-70 100 MAT/MT/E RANGES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMM SIGMA OF USED TO CORRECT ALL ANGULAR Legend 10 NECH COEFFICIENT S MAY BE INFUT, WILL BE TREATED BY ALLOWABLE MINIMM SIGMA OF USED TO CORRECT ALL ANGULAR Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH COEFFICIENT S MU FD 0.001 (1 MILLI-BARN) AND A CHANCE   Legend 10 NECH TART THE CROSS SECTION AT THE COSINES WHERE THE ANGULAR 10 STRIBUTION MERE SIGMA IS LESS THAN THE MINIMM ALLOWABLE SIGMA (SPECIFIC 10 Legend 10 NECH TART THE CROSS SECTION AT THE COSINES WHERE THE ANGULAR 10 LEGENDRE COEFFICIENTS AND TABULATED DATA TO OFTAIN AND AT LEAST AS LARGE AS THE MINIMM ALLOWABLE SIGMA (SPECIFIC 10 Legend 10 NOT SPECIFY MAT/MT/E RANGES. READ /ENDERG/K300/LEAD.IN AND WRITE /ENDERG/K300/LEAD.OT 10 LEGENDRE COEFFICIENTS AND TABULATED DATA TO OFTAIN ANGULAR DISTRIBUTION WHICH ARE ACCURATE TO WITHIN 0.1 PER-CENT 10 Legend 10 POINT CORRECTED TABULATED ANGULAR DISTRIBUTION ON LEGENDRE 10 CONTOUT CORRECTED TABULATED ANGULAR DISTRIBUTION ON LEGENDRE 10 CONTOUT CONCRECTED TABULATED ANGULAR DISTRIBUTION ON LEGENDRE 10 CONTOUT</pre>	3	1-60	60A1	•	•	-
<ul> <li>4-N 1-6 1 16 LÖWER MAT LIMIT Legend 7-8 12 LÖWER MAT LIMIT Legend 9-11 13 LÖWER MAT LIMIT Legend 12-17 16 UPPER MAT LIMIT Legend 12-17 16 UPPER MAT LIMIT Legend 20-22 13 UPPER MAT LIMIT Legend 20-33 E11.4 LÖWER KERNERGY LIMIT Legend 3-33 E11.4 LÖWER KERNERGY LIMIT Legend 45-55 E11.4 MINIKUM ALLÖWABLE VALUE OF ANGULAR DISTRIBUTION DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE Legend ALLÓWABLE MINIKUM ALLÓWABLE VALUE OF ANGULAR DISTRIBUTION DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE Legend DISTRIBUTION MOM MAXIMU CHANGE NON SPECIENTS). ALLÓWABLE MINIKUM SIGMA AND MAXIMU CHANGE NIC SPECIENTS. ALLÓWABLE MINIKUM SIGMA AND 10.011 (I MILLI-BARN) AND A CHANGE IN EACH COCEFFICIENT BY UP TO 0.01 (I MILLI-BARN) AND A CHANGE IN EACH COCEFFICIENT BY UP TO 0.01 (I MILLI-BARN) AND A CHANGE IN EACH COCEFFICIENT BY UP TO NILL BE TREATED EY ALLÓWINE THAT THE CROSS SECTION AT THE COSINE HUMEN. THEY AN ELGEND ONLY USED TO CORRECT DISTRIBUTION THAT ARE NEGATIVE AND TO INDUE THAT THE CROSS SECTION AT THE COSINE THE MENNIKA THE ANGULAR DISTRIBUTION ARE INFILIALLY NEGATIVE ARE CORRECTED TO BE NOSITIVE Legend DISTRIBUTION WHICH ARE ACCURATE TO WITHIN 0.1 PER-CENT AND AND AND ALLÓWABLE SIGMA GISTRIBUTION USED Legend ANAXIMON O 501 POINTS IN EACH TABULATED ANGULAR DISTRIBUTION SIGM AND AND ALLÓW ANGULAR DISTRIBUTION USED LEGENDRE COEFFICIENTS AND TABULATED DATA TO OFTAIN</li></ul>	-		• • • • •			-
7-8       12       LOWER NF LIMIT       Legend         12-17       16       UPPER NAT LIMIT       Legend         12-17       16       UPPER NF LIMIT       Legend         20-22       13       UPPER NF LIMIT       Legend         20-31       SIL1.4       LOWER ENREGY LIMIT       Legend         21-33       SIL1.4       LOWER ENREGY LIMIT       Legend         45-55       E11.4       ALLOWER ENREGY LIMIT       Legend         0       ELGENDRE COEFFICIENT TO MAKE THE ANOULAR       Legend         0       ELGENDRE COEFFICIENT TO MAKE THE ANOULAR       Legend         1.NEVT NILNUM ALLOWABLE VALUE OF ANCULAR DISTRIBUTION       Legend         1.NEVT TO 100 MAT/MT/E RANGES MAY BE INPUT, EACH SPECIFYING AN       ALLOWABLE MINIMUM SIGMA AND MAXIMU CHANNE IN COEFFICIENTS.         1.NEGENDRE SCHOLT SUBJ UP TO 0.01 (1 MILLI-BARN) AND A CHANGE       Legend         1.NEUT IS TERMINATED BY A BLANK CARD.       Legend         *ALL MAY/MT/E RANGES ARE NOT USED TO CORRECT ALL ANGULAR       Legend         1.NEUT IS TERMINATED SIZE ART THE ANIONAL THE AND TO       Legend         1.NEUT IN ALL COSS ESCITIEND BY INT WILL BE TREATED BY       Legend         1.NEUT IS TERMINATED IN AND MAXIMU CHANCEAND TO       Legend         1.NEUT END. 1       Legend       Legend	4-N	1-6	16			2
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<ul> <li>23-33 Ell.4 LOWER ENERGY LIMIT</li> <li>34-44 Ell.4 UDPER ENERGY LIMIT</li> <li>35-66 Ell.4 ALLOWABLE FRACTION (NOT PER-CENT) CHANGE IN ANY ONE LEGENDRE COEFFICIENT TO MARE THE ANGULAR DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE INPUT MINIUM ALLOWABLE VALUE).</li> <li>*UP TO 100 MAT/MT/E RANGES MAY BE INPUT, EACH SPECIFYING AN ALLOWABLE MINIUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.</li> <li>*Legend ALLOWABLE STATUS).</li> <li>*UP TO 100 MAT/MT/E RANGES NAY BE INPUT, EACH SPECIFYING AN ALLOWABLE MINIUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.</li> <li>*LEGENDING A MINIUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE ALLOWABLE MINIUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.</li> <li>*LEGENDING A MINIUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE ALLOWABLE MINIUM SIGMA FOR 0.001 (1 MILLI-BANN) AND A CHANGE ALLOWABLE MINIUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.</li> <li>*HISE MAT/MT/E RANGES ANET NOT USED TO CORRECT ALL ANQUIAR DISTRIBUTIONS WHERE SIGMA IS LESS THAN THE MINIMUM. THEY ARE Legend ONLY USED TO CORRECT DISTRIBUTION THAT ARE NEGATIVE AND TO LEGEND ONLY USED TO CORRECT DISTRIBUTION THAT ARE NEGATIVE AND TO LEGEND DISTRIBUTION ANE INITIALLY NEGATIVE ARE CORRECTED TO BE POSITIVE Legend AND AT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED Legend AND AT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED Legend AND OUTPOT UNCORRECTED TABULATED ANDUARD DISTRIBUTION AND AT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED Legend AND OUTPOT UNCORRECTED TABULATED ANDUARD DISTRIBUTION SINCE LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AMAXIMUM OF 501 POINTS IN EACH TABULATED ANGULAR DISTRIBUTION SINCE LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AND OUTPOT UNCORRECTED TABULATED ANGULAR DISTRIBUTION SINCE LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AND ANAXIMUM OF 501 POINTS IN EACH TABULATED DATA TO OBTAIN AND AND AND ALLOW LEGENDRE COEFFICIENTS TO BE Legend PROCESS BOTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBT</li></ul>						
<ul> <li>34-44 ±11.4 UPERE ENERGY LIMIT</li> <li>45-55 ±11.4 MINIMUM ALLOWABLE VALUE OF ANULAR DISTRIBUTION Legend DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE Legend DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE INFUT MINIMUM ALLOWABLE VALUE).</li> <li>*UP TO 100 MAT/MT/E RANGES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.</li> <li>*ALL MAY/MT/E RANGES NAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMUM SIGMA AD F 0.001 (1 MILLI-BANN) AND A CHANGE IN EACH COEFFICIENT BY UF TO 0.01 (1 MILLI-BANN) AND A CHANGE IN EACH COEFFICIENT BY UF TO 0.01 (1 MILLI-BANN) AND A CHANGE Legend ALLOWING A MINIMUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE IN EACH COEFFICIENT BY UF TO 0.01 (1 PER-CENT).</li> <li>Legend DISTRIBUTION WHERE SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE IN EACH COEFFICIENT BY UF TO 0.01 (1 PER-CENT).</li> <li>Legend DISTRIBUTION HERES SIGNE NOT USED TO CORRECT ALL ANGULAR DISTRIBUTION HERE SIGMA IS LESS THAN THE MINIMUM. THEY ARE Legend ND INSURE THAT THE COSS SECTION AT THE COSINES WHERE THE ANGULAR DISTRIBUTION ARE INTITIALLY NECATIVE ARE CORRECTED TO BE POSITIVE Legend ND TLEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED BY INPUT).</li> <li>EXAMPLE INPUT NO. 1</li> <li>FROCESS BOTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN ANGULAR DISTRIBUTION WHICH ARE ACCURATE TO WITHIN 0.1 PER-CENT AND OUTPUT UNCORECTED TABULATED ANGULAR DISTRIBUTION USED A MAXIMUM OF 501 POINTS IN EACH TABULATED ANGULAR DISTRIBUTION SINCE LEGENDRE COEFFICIENTS WILL NOT BE CORRECTED THE INPUT NEED Legend NOT SPECIFY MAT/MT/E RANGES.</li> <li>READ /ENDFBG/K300/LEAD. OT Legend NOT SPECIFY MAT/MT/E RANGES.</li> <li>READ /ENDFBG/K300/LEAD. OT Legend NOTORE T TABULATED ANGULAR DISTRIBUTION (DAL Legend Legend NOT SPECIFY MAT/MT/E CORFCT MEGNITIS AND TABULATED DATA TO OBTAIN ANGULAR DISTRIBUTION WHICH ARE ACCURATE TO WITHIN 0.1 PER-CENT AND OUTPUT UNCRECT TABULATED ANGULAR DISTRIBUTION TO A VALUE Legend PROCESS BOTH LEGENDRE COE</li></ul>			-		ודיי	-
45-55       E11.4       MINIMUM ALLOWABLE VALUE OF ANGULAR DISTRIBUTION I AND ONE LEGENDRE COEFFICIENT TO MAKE THE ANGULAR DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE INPUT MINIMUM ALLOWABLE VALUE).       Legend Legend         *UF TO 100 MAT/MT/E RANCES MAY BE INPUT, EACH SPECIFYING AN ALLOWABLE MINIMUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.       Legend Legend Legend         *INPUT MINIMUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.       Legend Legend         *LIL MAY/MT/E RANGES NOT SPECIFIED BY INPUT WILL BE TREATED BY ALLOWABLE MINIMUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE Legend ALLOWABLE MINIMUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANGE Legend DISTRIBUTIONS WHERE SIGMA IS LESS THAN THE MINIMUM THEY AR DISTRIBUTION WHERE SIGMA IS LESS THAN THE MINIMUM THEY AR DISTRIBUTION WHERE SIGMA IS LESS THAN THE MINIMUM THEY AR DISTRIBUTION AND AND MAXIMUM ALLOWABLE SIGMA (SPECIFIED BY INPUT).         EXAMPLE INPUT NO. 1       Image and the MINIMUM ALLOWABLE SIGMA (SPECIFIED BY INPUT).       Legend Legend AND AUT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED BY INPUT).       Legend Legend AND AUT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED Legend AND OUTPUT UNCORRECTED TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOUTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AND AUT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIED Legend AND OUTPUT UNCORRECTED TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOUTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AND OUTPUT UNCORRECTED TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOUTH ARE ACCURATE TO WITHIN 0.1 PER-CENT AND OUTPUT CORRECTED TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOUTH AND AND AND ALLOW LEGENDRE COEFFICIENTS TO BE Legend PROCESS BOTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN AND						
56-66       E11.4       ALLOWABLE FRACTION (NOT PER-CENT) CHANGE IN ANY DISTRIBUTION POSITIVE (AND AT LEAST EQUAL TO THE INFUT MINIMUM ALLOWABLE VALUE).       Legend Legend         *UP TO 100 MAT/MT/E RANCES MAY BE INFUT, EACH SPECIFYING AN ALLOWABLE MINIMUM SIGMA AND MAXIMUM CHANGE IN COEFFICIENTS.       Legend         *INFUT IS TERMINATED BY A BLANK CARD.       *ALL MAY/MT/E RANGES NAY BE INFUT, EACH SPECIFYING AN ALLOWING A MINIMUM SIGMA OF 0.001 (1 MILLI-BANN) AND A CHANCE IN REACH COEFFICIENT BY UN TO 0.01 (1 PER-CENT).       Legend         *ALL MAY/MT/E RANGES NAR SPECIFYED BY INFUT WILL BE TREATED BY ALLOWING A MINIMUM SIGMA OF 0.001 (1 PER-CENT).       Legend         *THESE MAT/MT/E RANGES ARE NOT USED TO CORRECT ALL ANGULAR DISTRIBUTIONS WHERE SIGMA IS LESS THAN THE MINIMUM. THEY ARE ONLY USED TO CORRECT DISTRIBUTION THAT ARE NEGATIVE AND TO Legend DISTRIBUTION REAR SIGMA IS LESS THAN THE MINIMUM. THEY ARE DISTRIBUTION ARE INITIALLY NEGATIVE ARE CORRECTED TO BE POSITIVE Legend DISTRIBUTION RE INITIALLY NEGATIVE ARE CORRECTED TO BE POSITIVE Legend AND AT LEAST AS LARGE AS THE MINIMUM ALLOWABLE SIGMA (SPECIFIE BY INVUT).       Legend Legend Legend A MAXIMUM OF SOID FOINTS IN EACH TABULATED ANGULAR DISTRIBUTION USING AND OUTPUT UNCORRECTED TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOID FOINTS IN EACH TABULATED ANGULAR DISTRIBUTION USING A MAXIMUM OF SOID FOINTS WILL NOT BE CORRECTED THE INFUT NEED NOT SPECIFY MAT/MT/E RANGES.       Legend Legend Legend Legend I Legend I Legend I Legend I Legend I Legend I Legend I CONDO-3       1       0         1.00000-3       501       2       1       0         I Legend I Legend I Legend I Legend I Legend I Legend I Legend I Legend I Legend I Leg		-				
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THE FOLLOWING 5 INPUT LINES ARE REQUIRED, Legend 1.00000-3 501 2 1 1 Legend Legend		DONE BY	LEAVIN	THE SECOND AND	THIRD INPUT LINES BLANK).	-
Legend         Legend           1.00000-3         501         2         1         1         Legend           Legend         Legend         Legend         Legend						-
1.00000-3 501 2 1 1 Legend Legend		THE FOL	LOWING	INPUT LINES ARE	REQUIRED,	-
Legend						-
-	1.00	0000- 3		01 2	1 1	-
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1 1 1 999999999 0.00000+ 0 3.00000+ 7 1.00000- 2 2.00000- 2 (BLANK CARD TERMINATED INPUT)	Lege: Lege:
(BLANK CARD TERMINATED INFOT)	Lege
EXAMPLE INPUT NO. 3	Lege
	Lege
PROCESS BOTH LEGENDRE COEFFICIENTS AND TABULATED DATA TO OBTAIN	Lege
ANGULAR DISTRIBUTION WHICH ARE ACCURATE TO WITHIN 0.1 PER-CENT	Lege
AND OUTPUT CORRECTED LEGENDRE COEFFICIENTS AND UNCORRECTED	Lege
TABULATED ANGULAR DISTRIBUTIONS. FOR MAT=1800, MT=2 CORRECT	Lege
NEGATIVE ANGULAR DISTRIBUTIONS TO INSURE THE MINIMUM IS 0.01	Lege
(10 MILLI-BARNS) ALLOWING EACH LEGENDRE COEFFICIENT TO CHANGE BY	Lege
UP TO 0.02 (2 PER-CENT). ALL OTHER MAT/MT/E WILL BE CORRECTED	Lege
TO A MINIMUM OF 0.001 (1 MILLI-BARN) ALLOWING A 0.01 (1 PER-CENT)	Lege
CHANGE (BUILT-IN OPTION).	Lege
·	Lege
READ /ENDFB6/K300/LEAD.IN AND WRITE /ENDFB6/K300/LEAD.OUT	Lege
	Lege
THE FOLLOWING 5 INPUT LINES ARE REQUIRED,	Lege
	Lege
.00000-3 501 2 2 1	Lege
ENDFB6/K300/LEAD.IN	Lege
ENDFB6/K300/LEAD.OUT	Lege
1800 4 2 1800 4 2 0.00000+ 0 3.00000+ 7 1.00000- 2 2.00000- 2	Lege
(BLANK CARD TERMINATED INPUT)	Lege
	Lege
EXAMPLE INPUT NO. 4	-
EXAMPLE INPUT NO. 4	-
	Lege Lege
	Lege Lege Lege
TO COPY TABULATED ANGULAR DISTRIBUTION AND CONVERT LEGENDRE COEFFICIENTS TO UNCORRECTED TABULAR DISTRIBUTIONS.	Lege Lege Lege Lege
TO COPY TABULATED ANGULAR DISTRIBUTION AND CONVERT LEGENDRE COEFFICIENTS TO UNCORRECTED TABULAR DISTRIBUTIONS. USE THE DEFAULT FILENAMES ENDFB.IN AND ENDFB.OUT (THIS CAN BE	Lege Lege Lege Lege Lege
TO COPY TABULATED ANGULAR DISTRIBUTION AND CONVERT LEGENDRE COEFFICIENTS TO UNCORRECTED TABULAR DISTRIBUTIONS.	Lege Lege Lege Lege Lege
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