PROGRAM	COMPI	LOT		Comple Comple
======		==		Complo
		(FEBRUARY, 1983)		Complo
		(MAY, 1983)		Complo
VERSION	83-3	(DECEMBER, 1983)	*MAJOR MODIFICATION.	Complo
			*ADDED SELECTION OF PLOTS BY MAT OR	Complo
			ZA/MT/ENERGY RANGE (EV).	Complo
			*ADDED VARIABLE AXIS UNITS (PROGRAM	Complo
			CONTROLLEDX=MILLI-EV, EV, KEV,	Complo
			MEVY=MILLI-BARNS, BARNS).	Complo
VERSION	84-1	(APRIL, 1984)	*ADDED SELECTION BY REACTION/ENERGY	Complo
			RANGE.	Comple
			*ADDED IDENTIFY DATA POINTS OPTION	Complo
			(SMALL BOX DRAWN AROUND EACH CROSS	Complo
			SECTION AND RATIO POINT).	Complo
			*IMPROVED NON-IBM GRAPHICS INTERFACE	_
			(ALL CHARACTER POSITIONING NOW	Comple
			BASED ON CHARACTER, NOT RASTER,	Comple
	05 1	(3 DD TT 1005)	SIZE).	Comple
VERSION	82-1	(APRIL, 1985)	*SPECIAL I/O ROUTINES TO GUARANTEE	Complo
			ACCURACY OF ENERGY.	Comple
			*DOUBLE PRECISION TREATMENT OF	Comple
			ENERGY (REQUIRED FOR NARROW	Comple
			RESONANCES).	Comple
			*ADDED (ZA,MT) EQUIVALENCE OPTION.	Compl
	05.0	(*ADDED SMALL PLOT OPTION.	Compl
		(AUGUST, 1985)	*FORTRAN-77/H VERSION	Compl
		(JANUARY, 1986)	*ENERGY DEPENDENT SCATTERING RADIUS	Compl
VERSION	86-2	(DECEMBER, 1986)		Compl
			(REQUIRED FOR NARROW ENERGY RANGES)	-
VERSION	88-1	(JULY 1988)	*MAJOR REVISION TO MAKE CODE EASILY	Compl
			INTERFACEABLE TO ALMOST ANY PLOTTER	-
			*WARNINGINPUT PARAMETERS FROM BEEN	-
			CHANGED (SEE, DESCRIPTION BELOW)	Comple
			*COMPUTER INDEPENDENT SOFTWARE	Comple
			CHARACTERS.	Comple
			*COLOR PLOTS.	Comple
			*MT NUMBER DEFINITIONS FROM DATA	Comple
			FILE READ BY PROGRAM	Compl
			*FORTRAN-77 REQUIRED (FORTRAN-H NO	Comple
			SUPPORTED BY THIS PROGRAM).	Comple
			*OPTIONINTERNALLY DEFINE ALL I/O	Comple
			FILE NAMES (SEE, SUBROUTINE FILEIO	Comple
			FOR DETAILS).	Comple
			*IMPROVED BASED ON USER COMMENTS.	Compl
VERSION	88-2	(OCTOBER 1988)	*IMPROVED BASED ON USER COMMENTS.	Compl
			*ADDED LIVERMORE CIVIC COMPILER	Comple
			CONVENTIONS.	Compl
			*UPDATED TO USE NEW PROGRAM CONVERT	Comple
			KEYWORDS.	Compl
VERSION	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Comple
			INSURE PROGRAM WILL NOT DO ANYTHING	_
			CRAZY.	Comple
			*FORTRAN-77/FORTRAN-H COMPATIBLE	Comple
			*SPECIAL ENDF/B MATERIAL DEFINITIONS	
			(ZA.LT.1000) FROM DATA FILE READ	Compl
				Comple
			BY PROGRAM.	_
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT	
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE	Compl
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1,	Comple
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT	Comple Comple Comple
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451	Comple Comple Comple Comple
VERSION	89-2	(MARCH 1989)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI	Comple Comple Comple Comple
			*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS.	Comple Comple Comple Comple Comple
		(MARCH 1989) (AUGUST 1990)	*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM	Comple Comple Comple Comple Comple Comple Comple
			*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM *ADDED INTERACTIVE MOUSE INPUT	Comple Comple Comple Comple Comple Comple Comple Comple
			*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM *ADDED INTERACTIVE MOUSE INPUT *ADDED 3 CHARACTER FONTS	Comple Comple Comple Comple Comple Comple Comple Comple Comple
			*ADDED ENDF/B-V AND VI MT DEFINITIONS. PROGRAM WILL DETERMINE ENDF/B FORMAT BASED ON MF=1, MT=451 AND USE AS PPROPRIATE MT DEFINITIONS. IF NO MF=1, MT=451 PROGRAM WILL USE ENDF/B-VI MT DEFINITIONS. *A NEW PROGRAM *ADDED INTERACTIVE MOUSE INPUT	Comple Comple Comple Comple Comple Comple Comple Comple

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		*ADDED MAXIMUM RATIO RANGE WHEN	Complot
		PLOTTING RATIOS.	Complot
		*ADDED GRID TYPES	Complot
		*ADDED VARIABLE LINE THICKNESS *WARNINGINPUT PARAMETER FORMAT	Complot Complot
		HAS BEEN CHANGEDSEE DESCRIPTION	Complot
		BELOW.	Complot
VERSION 92-1	(JANUARY 1992)	*ADDED INCIDENT CHARGED PARTICLES	Complot
		(IDENTIFIED IN PLOT TITLES) *ADDED COMPLETELY COMPATIBLE I/O	Complot Complot
		FOR READING FLOATING POINT NUMBERS.	_
VERSION 92-2	(MAY 1992)	*CORRECTED DESCRIPTION OF INPUT	Complot
		PARAMETERS AND EXAMPLE PROBLEMS.	Complot
VERSION 93-1	/MADCH 1002)	*ADDED VARIABLE CHARACTER SIZE INPUT *UPDATE FOR ON SCREEN GRAPHIC	Complot Complot
VERSION 95-1	(MARCH 1993)	OUTPUT USING THE LAHEY COMPILER	Complot
		*ADDED NU-BAR (TOTAL, DELAYED,	Complot
		PROMPT).	Complot
VERSION 94-1	(JANUARY 1994)	*VARIABLE ENDF/B DATA FILENAMES TO ALLOW ACCESS TO FILE STRUCTURES	Complot
		(WARNING - INPUT PARAMETER FORMAT	Complot Complot
		HAS BEEN CHANGED)	Complot
		*CLOSE ALL FILES BEFORE TERMINATING	Complot
IMPOTON OF 1	(MADON 100E)	(SEE, SUBROUTINE ENDIT)	Complot
VERSION 95-1	(MARCH 1995)	*CORRECTED CROSS SECTION MULTIPLIER FOR EQUIVALENCES	Complot Complot
		*CORRECTED RATIO SCALING, FOR	Complot
		MAXIMUM RATIO LESS THAN 1.0	Complot
VERSION 96-1	(JANUARY 1996)	*COMPLETE RE-WRITE	Complot
		*IMPROVED COMPUTER INDEPENDENCE *ALL DOUBLE PRECISION	Complot Complot
		*UNIFORM TREATMENT OF ENDF/B I/O	Complot
		*IMPROVED OUTPUT PRECISION	Complot
		*DEFINED SCRATCH FILE NAMES	Complot
		*INCREASED PAGE SIZE FROM 24000 TO 48000 POINTS	Complot Complot
VERSION 97-1	(APRIL 1997)	*INCREASED PAGE SIZE FROM 48000	Complot
		TO 480000 POINTS	Complot
VERSION 99-1	(MARCH 1999)	*CORRECTED CHARACTER TO FLOATING	Complot
		POINT READ FOR MORE DIGITS *UPDATED TEST FOR ENDF/B FORMAT	Complot Complot
		VERSION BASED ON RECENT FORMAT CHANGE	-
		*GENERAL IMPROVEMENTS BASED ON	Complot
TEDS 2000_1	/PEDDITADY 2000)	USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON	Complot
VERS. 2000-1	(FEBRUARI 2000)	USER FEEDBACK	Complot Complot
VERS. 2002-1	(MAY 2002)	*INPUT PARAMETERS OPTIONAL	Complot
		*CONTROL MINIMUM RATIO RANGE BY INPUT	Complot
VERS. 2004-1	(CEDM 2004)	*OPTIONAL BLACK OR WHITE BACKGROUND *ADDED INCLUDE FOR COMMON	Complot Complot
VERS. 2004-1	(SEF1. 2004)	*INCREASED PAGE SIZE FROM 480000	Complot
		TO 600000 POINTS	Complot
		*ADDED NEW REICH-MOORE TO FILE2 TO	Complot
		ALLOW IDENTIFICATION OF RESOLVED AND ANY FOLLOWING UNRESOLVED RESONANCE	Complot Complot
		REGIONS.	Complot
VERS. 2007-1	(JAN. 2007)	*CHECKED AGAINST ALL ENDF/B-VII.	Complot
		*INCREASED MAXLOAD TO 600,000 FROM	Complot
TEDS 2000-1	/ TAN 2000)	12,000	Complot
VERS. 2009-1	(JAN. 2009)	*IGNORED DIFFERENCES NEAR RESONANCE REGION BOUNDARIES (RESOLVED AND	Complot Complot
		UNRESOLVED).	Complot
VERS. 2010-1	(July 2010)	*Allow comparison plot even if there	Complot
		is no difference (just see data). *ONLY plot linearly interpoolable data	Complet
		*Include threshold energy points to	Complot
		show cross sections, but NOT ratios	Complot
TEDS COST	/T 0011;	near threshold.	Complot
VERS. 2011-1	(Jan. 2011)	*Increased MT.DAT from 200 to 1,000 entries, to accommodate new MTs.	Complot Complot
VERS. 2012-1	(Aug. 2012)	*Increased incident particle list to	Complot
·			•

	include wheten (77 - 0)	Commist
	<pre>include photon (ZA = 0). *Added CODENAME</pre>	Complot Complot
	*32 and 64 bit Compatible	Complot
	*Added ERROR stop	Complot
VERS. 2013-1 (Nov. 2013)	*ONLY use min/max ratios to decide	Complot
	whether or not to plot - non-positive	-
	cross sections are no longer used.	Complot
	*Limited per-cent differences to fit	Complot
	output format = -9999 to +9999 %. *OUT9 replaced NORMX	Complot Complot
VERS. 2015-1 (Jan. 2015)	*Added MF=10 Radionuclide Production	Complot
,	which requires longer plot titles.	Complot
	*Restricted character size multiplier	Complot
	to 0.5 to 1.5 to accommodate longer	Complot
	plot titles.	Complot
TED 0 0015 0 (Man 0015)	*Replaced ALL 3 way if statements.	Complot
VERS. 2015-2 (Mar. 2015)	*Corrected tables for X and Y axis labels = see change search for 2015-2	Complet
VERS. 2015-3 (Oct. 2015)	*Allow multiple LRF=7 regions plus	Complot
,	unreslved region - earlier assumed	Complot
	LRF=7 never used unrsesolved.	Complot
VERS. 2017-1 (May 2017)	*For MF=2 use MT=151 to define	Complot
	Unresolved Resonance Region (URR).	Complot
	Ignore NJOY MT=152 and 153.	Complot
	*All floating input parameters changed to character input + IN9 conversion.	Complot
	*Added MF=4 Legendre Coefficient	Complot
	Comparison: f1 through f6	Complot
Vers. 2018-1 (Jan. 2018)	*Doubled in core storage to 1,200,000.	_
	*Replaced Q MeV by MT= at top of plots	Complot
	(Q value in ENDF is now only defined	Complot
	in MF=3, making it difficult for all	
	other MF now treated by this code) *Initial Linear X scaling for MF=1	Complot Complot
	(nu-bar) and MF=4 (Legendre) =	Complot
	this can be turned OFF by ZOOM	Complot
	+ Unless energy range is requested =	Complot
	allows MF=1 and 4 default Linear X	Complot
	scaling to be turned off by input	Complot
	parameters, i.e., by COMHARD	Complot
	*Zoom lower energy limit restricted 1.0d-5 eV - to lower zoom of linear	Complot Complot
	energy plots (otherwise cannot find	Complot
	actual lower limit on plot).	Complot
	*Added NRO = energy dependent scatter	Complot
	radius to reading FILE2 parameters	Complot
	to define unresolved energy range.	Complot
	*Corrected energy dependent scatter	Complot
	for all resonance types (see, above remarks).	Complot Complot
	ICMAINS / .	Complot
2015-2 Acknowledgment		Complot
=======================================		Complot
	raPower,WA) for reporting the errors	Complot
that led to the 2015-2 Impr	covements in this code.	Complot
T thank Toon Christenh Cul	Not (HEATA) for contributing MAC	Complot
-	plet (UKAEA) for contributing MAC nn (IJS, Slovenia) for contributing	Complot Complot
_	tables. And most of all I must thank	Complot
	or overseeing the entire PREPRO project	Complot
	truly International team who worked	Complot
together to produce PREPRO	2015-2.	Complot
		Complot
OWNED, MAINTAINED AND DISTR		Complot
THE NUCLEAR DATA SECTION		Complot Complot
INTERNATIONAL ATOMIC ENERGY	AGENCY	Complot
P.O. BOX 100		Complot
A-1400, VIENNA, AUSTRIA		Complot
EUROPE		Complot
		Complot

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COMPLOTER. COMPLOTE PURPOSE	·	
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	SAME DIMENSION = $X = 0$ to 12.5 and $Y = 0$ to 10 FOR DECADES	Complot

TO PRODUCE BOTH ON-SCREEN AND HARDCOPY POSTSCRIPT PLOTS.

I STRONGLY SUGGEST THAT YOU NOT CHANGE THESE DIMENSIONS UNLESS YOU MUST = BASED ON THE PLOT SIZE YOU OBTAIN WHEN YOU FIRST RUN THIS CODE.

PROGRAM IDENTIFICATION

AS DISTRIBUTED THE FIRST FRAME OF PLOTTED OUTPUT WILL DOCUMENT THE PROGRAM NAME, VERSION AND INSTALLATION. THIS INFORMATION IS STORED AS DATA IN THE ARRAY VERSES NEAR THE BEGINNING OF SUBROUTINE FRAME1. IF YOU WISH TO CUSTOMIZE THE OUTPUT TO IDENTIFY Complot YOUR INSTALLATION CHANGE THE LAST TWO LINES OF THE ARRAY (VERSES). Complot

ENDF/B FORMAT

THIS PROGRAM ONLY USES THE ENDF/B BCD OR CARD IMAGE FORMAT (AS OPPOSED TO THE BINARY FORMAT) AND CAN HANDLE DATA IN ANY VERSION OF THE ENDF/B FORMAT (I.E., ENDF/B-I, II, III, IV, V OR VI FORMAT).

BOTH SETS OF EVALUATED DATA MUST BE IN THE ENDF/B FORMAT. ONLY SECTIONS OF FILE 2 (RESONANCE PARAMETERS) AND FILES 3, 23 AND 27 (TABULATED DATA) WILL BE READ AND ALL OTHER SECTIONS WILL BE SKIPPED. IN FILE 2 THE ONLY IMPORTANT INFORMATION IS THE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE REGION WHICH IS LOCATED IN THE SAME FIELDS IN ALL VERSIONS OF THE ENDF/B FORMAT. SIMILARLY THE FORMAT OF FILES 3, 23 AND 27 IS THE SAME IN ALL VERSIONS OF ENDF/B. THEREFORE THIS PROGRAM CAN BE USED WITH DATA IN ANY ENDF/B FORMAT (I.E. ENDF/B-I, II, III, IV, V OR VI).

CROSS SECTION INTERPOLATION

CROSS SECTIONS MUST BE IN EITHER HISTOGRAM (I.E., INTERPOLATION LAW 1) OR LINEARLY INTERPOLABLE (I.E. INTERPOLATION LAW 2) FORM. IF THEY ARE NOT A WARNING MESSAGE WILL BE PRINTED AND EXECUTION WILL BE TERMINATED. SEE INSTRUCTIONS BELOW ON HOW TO CONVERT DATA TO HISTOGRAM OR LINEARLY INTERPOLABLE FORM.

REACTION INDEX

THIS PROGRAM DOES NOT USE THE REACTION INDEX WHICH IS GIVEN IN SECTION MF=1, MT=451 OF EACH EVALUATION.

SECTION SIZE

SINCE THIS PROGRAM USES A LOGICAL PAGING SYSTEM THERE IS NO LIMIT

TO THE NUMBER OF POINTS IN ANY SECTION, E.G., THE TOTAL CROSS SECTION MAY BE REPRESENTED BY 200,000 DATA POINTS.

DATA SELECTION

THE USER MAY SPECIFYING THE DATA TO BE COMPARED BY INPUTTING UP TO 100 MAT/MT/ENERGY OR ZA/MT/ENERGY RANGES. IF THE UPPER LIMIT OF THE MAT OR ZA RANGE IS LESS THAN THE LOWER LIMIT IT WILL BE SET EQUAL TO THE LOWER LIMIT (I.E. THIS INDICATE ONLY COMPARE ONE MAT OR ZA). IF THE UPPER LIMIT IS STILL ZERO IT WILL BE SET TO 9999 (NO LIMIT). IF THE UPPER MF OR MT LIMIT IS ZERO IT WILL BE SET TO 99 OR 999, RESPECTIVELY (NO LIMIT). IF THE UPPER ENERGY LIMIT IS ZERO IT WILL BE SET TO A LARGE NUMBER (NO LIMIT).

THE LIST OF RANGES MUST BE TERMINATED BY A BLANK LINE (I.E. ZERO LOWER AND UPPER MAT/MF/MT OR ZA/MF/MT LIMITS).

IF THE FIRST RANGE LINE IS BLANK THIS LINE WILL TERMINATE THE LIST OF REQUESTS (I.E. A SECOND BLANK LINE NEED NOT BE INPUT) AND ALL PHYSICALLY COMPARABLE DATA WILL BE PLOTTED.

WHICH REACTIONS WILL BE PLOTTED

THOSE REACTIONS WITH THE SAME (ZA, MF, MT) WILL BE COMPARED, BUT ONLY THOSE DATA WHICH DIFFER BY A USER SPECIFIED ALLOWABLE

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DIFFERENCE WILL BE PLOTTED. IN ORDER TO FORCE ALL COMPARABLE REACTIONS TO BE PLOTTED THE USER NEED ONLY SPECIFY AN ALLOWABLE DIFFERENCE OF ZERO.

EQUIVALENT REACTIONS

IN ORDER TO COMPARE REACTIONS WHICH HAVE DIFFERENT ZA, MF OR MT THE USER IS ALLOWED TO SPECIFY AN EQUIVALENCE LIST OF UP TO 100 (ZA,MF,MT) COMBINATIONS ON THE MASTER FILE WHICH ARE TO BE EQUATED TO DIFFERENT (ZA,MF,MT) ON THE SECOND FILE. THIS OPTION MAY BE USED TO COMPARE SIMILAR REACTIONS FROM DIFFERENT MATERIALS (E.G. IRON AND NICKEL INELASTIC SCATTERING) OR DIFFERENT REACTIONS Complot FROM THE SAME OR DIFFERENT MATERIALS (E.G. U-235 CAPTURE AND FISSION - IN WHICH CASE THE RATIO WILL BE THE CAPTURE TO FISSION RATIO) OR THE SAME REACTION IN DIFFERENT VERSIONS OF THE ENDF/B FORMAT WHICH MAY BE ASSIGNED DIFFERENT MT NUMBERS, E.G., THE PHOTOELECTRIC CROSS SECTION IS MT=602 IN ENDF/B-V AND EARLIER VERSIONS OF ENDF/B, BUT IS MT=522 IN ENDF/B-VI.

IN THESE EQUIVALENCE LISTS A ZERO FIELD IMPLIES ALL. FOR EXAMPLE, TO EQUATE MT=522 FROM ONE FILE TO MT=602 ON THE OTHER, FOR ALL MATERIALS, ONE NEED ONLY SPECIFY ZA=0, MF=23, MT=522 EQUIVALENT TO ZA=0, MF=23 AND MT=602.

PLOT FORMATS

THE TWO CROSS SECTIONS ARE CONSIDERED TO BE A STANDARD (THE FIRST CROSS SECTION) AND A CROSS SECTION TO BE COMPARED TO THE STANDARD (THE SECOND CROSS SECTION). THE OUTPUT FROM THIS PROGRAM IS A SERIES OF PLOTS. EACH PLOT WILL CONTAIN THE STANDARD CROSS SECTION Complot AND IN ADDITION THE USER MAY SPECIFY THAT EACH PLOT ALSO CONTAIN THE SECOND CROSS SECTION AND/OR THE RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION.

THE USER MAY SELECT ONE OF THE FOLLOWING FIVE PLOT FORMATS (THE NUMBER PRECEDING THE OPTION IS THE VALUE OF THE PLOT MODE SELECTOR Complot THAT THE USER SHOULD SPECIFY AS INPUT ON THE FIRST LINE).

- (0) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE RATIO OF THE SECOND EVALUATION TO THE FIRST EVALUATION. THE DATA WILL BE PRESENETED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD CROSS SECTION IN THE UPPER HALF OF THE PLOT AND THE RATIO IN THE LOWER HALF OF THE PLOT.
- (1) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE SECOND EVALUATION. THE DATA WILL BE PRESENTED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD CROSS SECTION ON THE UPPER HALF OF THE PLOT AND THE SECOND CROSS SECTION IN THE LOWER HALF OF THE PLOT.
- (2) THE STANDARD CROSS SECTION (I.E. FIRST EVALUATION) AND THE SECOND EVALUATION. THE DATA WILL BE PRESENTED AS ONE PLOT CONTAINING BOTH THE STANDARD AND SECOND CROSS SECTION. THE STANDARD CROSS SECTION WILL BE PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BE PRESENTED AS A DASHED LINE.
- (3) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA WILL BE PRESENTED AS THREE SUB-PLOTS PER PLOT WITH THE STANDARD CROSS SECTION IN THE UPPER THIRD OF THE PLOT, THE SECOND CROSS SECTION IN THE MIDDLE THIRD AND THE RATIO OF THE TWO IN THE LOWER THIRD OF THE PLOT (RECOMMENDED OPTION).
- (4) THE STANDARD CROSS SECTION, SECOND CROSS SECTION AND RATIO OF THE SECOND CROSS SECTION TO THE FIRST CROSS SECTION. THE DATA WILL BE PRESENTED AS TWO SUB-PLOTS PER PLOT WITH THE STANDARD AND SECOND CROSS SECTION ON THE SAME SUB-PLOT IN THE UPPER TWO THIRDS OF THE PLOT AND THE RATIO OF THE TWO IN THE LOWER THIRD OF THE PLOT. THE STANDARD CROSS SECTION WILL BE PRESENTED AS A SOLID LINE AND THE SECOND CROSS SECTION WILL BE Complot PRESENTED AS A DASHED LINE.

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Complot ADDITIONAL PLOT FEATURES Complot Complot IN ADDITION TO THE CROSS SECTIONS AND/OR RATIO THE FOLLOWING Complot INFORMATIONS WILL BE INCLUDED ON EACH PLOT. Complot Complot (1) AN IDENTIFICATION FOR EACH SET OF CROSS SECTIONS (UP TO 30 Complot CHARACTERS FOR EACH SET). Complot Complot (2) THE MAXIMUM NEGATIVE AND POSITIVE PER-CENT DIFFERENCE BETWEEN Complot THE TWO CROSS SECTIONS. Complot Complot (3) ARROWS INDICATING THE ENERGY AT WHICH THE MAXIMUM DIFFERENCES Complot (MINIMUM AND MAXIMUM RATIO) OCCUR. Complot Complot (4) THE ENERGY LIMITS OF THE RESOLVED AND UNRESOLVED RESONANCE Complot Complot REGION (IF THEY FALL WITHIN THE ENERGY LIMITS OF THE PLOT). Complot RATIO DATA Complot Complot IF RATIO OUTPUT IS REQUESTED THE RATIO WILL BE DEFINED AT EACH Complot ENERGY THAT APPEARS IN EITHER EVALUATION. BETWEEN THESE ENERGIES Complot THE RATIO WILL BE PLOTTED ASSUMING LINEAR DEPENDENCE BETWEEN Complot TABULATED VALUES. FOR HISTOGRAM OR LINEARLY INTERPOLABLE CROSS Complot SECTIONS THIS REPRESENTATION WILL POINT OUT ALL EXTREMA OF THE Complot RATIO, BUT NOT NECESSARILY THE ENERGY DEPENDENCE BETWEEN TABULATED Complot Complot Complot IF THE EVALUATED DATA IS NOT IN EITHER HISTOGRAM OR LINRARLY Complot INTERPOLABLE FORM THE RATIO MAY NOT EVEN FIND ALL EXTREMA. FOR Complot EXAMPLE, IF ONE EVALUATION IS LINEARLY INTERPOLABLE AND THE Complot OTHER NON-LINEAR, BUT BOTH AGREE AT ALL TABULATED ENERGIES THE Complot RATIO WILL APPEAR TO BE EQUAL TO UNITY AT ALL ENERGIES, BUT IN Complot FACT THE CROSS SECTION BETWEEN TABULATED ENERGIES MAY BE QUITE Complot DIFFERENT USING LINEAR VS. NON-LINEAR INTERPOLATION. FOR THIS Complot REASON ONLY LINEARLY INTERPOLABLE OR HISTOGRAM DATA IS ALLOWED Complot AS INPUT TO THIS PROGRAM. Complot Complot LINEAR INTERPOLABLE Complot Complot ALL CROSS SECTIONS MAY BE CONVERTED TO LINEARLY INTERPOLABLE FORM Complot BE USING PROGRAM LINEAR (UCRL-50400, VOL. 17, PART A). Complot Complot HISTOGRAM Complot Complot ALL LINEARLY INTERPOLABLE CROSS SECTION MAY BE CONVERTED TO Complot HISTOGRAM (I.E. MULTIGROUP) FORM BY USING PROGRAM GROUPIE Complot (UCRL-50400, VOL. 17, PART D). Complot Complot INPUT UNITS Complot Complot UNIT DESCRIPTION Complot Complot INPUT LINE Complot 9 MT DEFINITIONS. Complot 10 FIRST ENDF/B FORMATTED EVALUATION (STANDARD). Complot 11 SECOND ENDF/B FORMATTED EVALUATION. Complot SOFTWARE CHARACTERS. 17 Complot SOFTWARE SYMBOLS AND LINE TYPES Complot Complot OUTPUT UNITS Complot Complot UNIT DESCRIPTION Complot Complot 3 NORMAL OUTPUT REPORT. Complot 16 PLOTTER UNIT Complot Complot SCRATCH UNITS Complot Complot UNIT DESCRIPTION Complot

Complot

12 13			FIRST EVALUATION SECOND EVALUATION	Complot Complot
14	SCRATCH U	UNIT FOR	RATIO (ONLY USED IF RATIOS REQUESTED).	Complot
				Complot
			NAMES (SEE SUBROUTINE FILIO1 AND FILIO2)	Complot
				Complot
	FILE NAME			Complot
				Complot
2 3	COMPLOT. I			Complot
_	MT.DAT	POI		Complot Complot
10	ENDFB.IN1	1 (OR	AS READ FROM INPUT)	Complot
11	ENDFB. IN2	•	AS READ FROM INPUT)	Complot
12-14		•		Complot
15	PLOT.CHR			Complot
16	(PLOTTER	UNIT	JSUALLY A DUMMY)	Complot
				Complot
INPUT	PARAMETER			Complot
				-
LINE			DESCRIPTION	Complot
1			LOWER X LIMIT OF PLOTTER	Complot
1			UPPER X LIMIT OF PLOTTER	Complot Complot
			LOWER Y LIMIT OF PLOTTER	Complot
			UPPER Y LIMIT OF PLOTTER	Complot
	45-55	I11	NUMBER OF PLOTS PER FRAME IN X DIRECTION	Complot
	56-66	I11	NUMBER OF PLOTS PER FRAME IN Y DIRECTION	Complot
	67-70	F4.1	CHARACTER SIZE MULTIPLIER	Complot
			= 0 TO 1 - NORMAL CHARACTER SIZE	Complot
			= OTHERWISE - CHARACTERS SCALED BY THIS	Complot
			FACTOR	Complot
			DIOM ODIENMAMION TO DAGED ON MUE UDDED V	Complot
			PLOT ORIENTATION IS BASED ON THE UPPER X LIMIT	Complot Complot
			= .GT.0 - X HORIZONTAL/Y VERTICAL	Complot
			= .LT.0 - Y HORIZONTAL/X VERTICAL	Complot
			AFTER TESTING THE UPPER X LIMIT WILL BE	Complot
			SET TO ITS ABSOLUTE VALUE.	Complot
2	1-72	A72	FILENAME FOR FIRST ENDF/B DATA FILE	Complot
			(LEAVE BLANK FOR ENDFB.IN1)	Complot
3	1-72	A72	FILENAME FOR SECOND ENDF/B DATA FILE	Complot
			(LEAVE BLANK FOR ENDFB.IN2)	Complot
4	1-11 12-22	I11 I11	RETRIEVAL MODE (0=MAT, 1=ZA) GRID (SPEED) OPTION.	Complot
	12-22	111	= 0 - TICK MARKS ON BORDER	Complot Complot
			= 1 - SOLID AT COARSE INTERVALS	Complot
			= 2 - DASHED AT COARSE INTERVALS	Complot
			= 3 - SOLID AT COARSE AND FINE INTERVALS	Complot
			= 4 - DASHED AT COARSE AND FINE INTERVALS	Complot
			= 5 - SOLID COARSE/DASHED FINE INTERVALS	Complot
	23-33	I11	SHOULD BORDER BE PLOTTED AROUND EACH PLOT	Complot
			= 0 - NO	Complot
			= 1 - YES	Complot
	34-44	I11	LINE THICKNESS = 0 TO 5 - LINES AND CHARACTERS	Complot Complot
			= 0 TO 5 - LINES AND CHARACTERS =-1 TO -5 - ONLY LINES	Complot
	45-55	I11	OUTPUT MODE	Complot
	10 00		=-1 - ONLY COMPARISON LISTING. NO PLOTS.	Complot
			= 0 - CROSS SECTION OVER RATIO.	Complot
			= 1 - CROSS SECTION OVER CROSS SECTION.	Complot
			= 2 - TWO CROSS SECTIONS ON SAME PLOT.	Complot
			= 3 - CROSS SECTION OVER CROSS SECTION OVER	Complot
			RATIO.	Complot
			= 4 - TWO CROSS SECTIONS ON SAME PLOT OVER	Complot
			RATIO.	Complot
	56-66	I11	STARTING PLOT NUMBER	Complot
			= 0 - DO NOT NUMBER PLOTS	Complot
			= .GT.0 - NUMBER PLOTS IN LOWER LEFT HAND	Complot
			CORNER STARTING WITH INPUT NUMBER	COMPTOE
	67-70	T 4 1	BACKGROUND COLOR	Complat
	67-70	141	BACKGROUND COLOR = 0 = BLACK	Complot Complot

			= OTHERWISE = WHITE	Complot
5	1-11	E11.4	ALLOWABLE FRACTIONAL DIFFERENCE. USED WHEN	Complot
			PLOTTING RATIOS. ANY REACTION WHERE THE	Complot
			TWO EVALUATIONS DIFFER BY MORE THAN THE	Complot
			ALLOWABLE DIFFERENCE WILL BE PLOTTED. IF	Complot
			ZERO IS INPUT THE STANDARD ALLOWABLE	Complot
			DIFFERENCE OF 0.001 (0.1 PER-CENT) WILL BE	Complot
			USED.	Complot
	12-22	E11.4	MAXIMUM ALLOWABLE RATIO. IF RATIOS ARE	Complot
			PLOTTED THEY WILL BE IN THE RANGE RATMAX	Complot
			TO 1/RATMAX. IF 0.0 IS INPUT THERE WILL	Complot
			BE NO LIMIT ON THE RANGE OF THE RATIOS.	Complot
			THIS OPTION MAY BE USED TO IGNORE LARGE	Complot
			DIFFERENCES OVER VERY NARROW ENERGY RANGES	Complot
			(WHICH MAY BE UNIMPORTANT) AND ALLOW ONE	Complot
			TO SEE IMPORTANT, BUT SMALLER DIFFERENCES,	Complot
			OVER EXTENDED ENERGY RANGES.	Complot
6	1-40	40A1	IDENTIFICATION FOR UPPER EVALUATIONS	Complot
7	1-40	40A1	IDENTIFICATION FOR LOWER EVALUATIONS	Complot
			(IDENTIFICATIONS SHOULD BE LEFT ADJUSTED	Complot
			TO START IN COLUMN 1).	Complot
8-N	1- 6	16	LOWER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot
			INPUT LINE 1, COLUMNS 1-11).	Complot
	7- 8	12	LOWER MF LIMIT	Complot
	9-11	13	LOWER MT LIMIT	Complot
	12-22	E11.4	LOWER ENERGY LIMIT	Complot
	23-28	16	UPPER MAT OR ZA LIMIT (SEE SELECTION MODE,	Complot
			INPUT LINE 1, COLUMNS 1-11).	Complot
	29-30	12	UPPER MF LIMIT	Complot
	31-33	13	UPPER MT LIMIT	Complot
	34-44	E11.4	UPPER ENERGY LIMIT	Complot
	45-55	I11	IDENTIFY EVALUATED DATA POINTS OPTION.	Complot
			= 0 - DO NOT IDENTIFY DATA POINTS.	Complot
			= 1 - IDENTIFY DATA POINTS (BY DRAWING A	Complot
			SMALL BOX AROUND EACH POINT).	Complot
	56-66	I11	INTERACTIVE INPUT FLAG	Complot
			= 0 - NO INTERACTIVE INPUT ALLOWED	Complot
			= 1 - INTERACTIVE INPUT ALLOWED	Complot
			*SETTING THIS OPTION =1 WILL TURN ON THE	Complot
			MOUSE AFTER EACH PLOT AND ALLOW YOU TO	Complot
			INTERACTIVELY SPECIFY PLOT LIMITS.	Complot
			*IF YOU DO NOT WISH TO INTERACT WITH A PLOT	Complot
			OR IF YOU HAVE NO INTERACTIVE CAPABILITY	Complot
			THIS OPTION SHOULD BE SET = 0.	Complot
				Complot
			*WARNINGDATA POINTS IDENTIFIED OPTION IS	Complot
			NOT RECOMMENDED FOR PLOTS CONTAINING MANY	Complot
			(I.E. THOUSANDS) OF DATA POINTS SINCE IT	Complot
			WILL MERELY INCREASE THE RUNNING TIME OF	Complot
			THE PROGRAM AND STILL NOT ALLOW ONE TO	Complot
			ACCURATELY SEE DATA POINTS.	Complot
				Complot
			*UP TO 100 MAT OR ZA RANGES ARE ALLOWED.	Complot
			THE LIST IS TERMINATED BY A BLANK LINE.	Complot
			IF THE UPPER LIMIT IS LESS THAN THE LOWER	Complot
			LIMIT IT WILL BE SET EQUAL TO THE LOWER	Complot
			LIMIT. IF THE FIRST RANGE LINE IS BLANK	Complot
			ALL DATA WILL BE RETRIEVED. IF THE UPPER	Complot
			MT LIMIT IS ZERO IT WILL BE SET EQUAL TO	Complot
			999 (NO LIMIT). IF THE UPPER ENERGY LIMIT	Complot
			IS ZERO IT WILL BE INTREPRETED TO MEAN NO	Complot
			LIMIT. IF THE FIRST RANGE LINE SPECIFIES	Complot
			ZERO LOWER AND UPPER MAT OR ZA RANGE IT	Complot
			WILL TERMINATE THE LIST BE RANGE LINES	Complot
			(A SECOND BLANK LINE NEED NOT BE INPUT)	Complot
			AND THE ENTIRE RANGE OF MATS WILL BE	Complot
			COMPARED FOR THE SPECIFIED MT AND ENERGY	Complot
			RANGES.	Complot
				Complot
+1-M			EQUIVALENCES	Complot
	1- 6	16	MASTER ZA.	Complot

7-8 I2 MASTER MF.	Complot
9-11 I3 MASTER MT.	Complot
-	Complot
	Complot
-	Complot
_ , ,	Complot
	Complot
	Complot
	Complot
	Complot
THE SECOND CROSS SECTION TO BARNS PER MIXED	Complot
ATOM BY USING A MULTIPLICATION FACTOR WHICH	
	Complot
-	Complot
= 0.0 - ON INPUT WILL BE INTERPRETED AS 1.0	
	Complot
·	Complot
NOT 1.0).	Complot
*UP TO 100 MAT OR ZA EQUIVALENCES ARE	Complot
ALLOWED.	Complot
	Complot
-	Complot
	Complot
	Complot
*NOTE, IN ALL CASES THE TITLE AT TOP OF PLOT	-
	Complot
	Complot Complot
	Complot
• •	Complot
	Complot
THE FIRST INPUT LINE DEFINES THE DIMENSIONS OF THE PLOTTER BEING	Complot
	Complot
	Complot
	Complot
	Complot
•	Complot
	Complot
	Complot Complot
	Complot
0.0 10.0 0.0 10.0 3 2	Complot
	Complot
IF THE LOCAL PLOTTER USES DIMENSION OF MILLIMETERS THE SAME	Complot
PHYSICAL SIZE PLOT MAY BE OBTAINED IF THE FIRST INPUT LINE IS,	Complot
	Complot Complot
IN THE FOLLOWING EXAMPLES IN ALL CASES THESE OPTIONS WILL BE USED,	_
·	Complot
2) NO DODDED COLUMN 22 22 OF GEONE TABLE - 1	C1-t

- COLUMNS 23-33 OF SECOND INPUT LINE = 0

- COLUMNS 34-44 OF SECOND INPUT LINE = -2
- COLUMNS 45-55 OF SECOND INPUT LINE = 3

5) FIRST PLOT NUMBER - COLUMNS 56-66 OF SECOND INPUT LINE = 1

Complot

Complot

Complot

Complot Complot

Complot Complot

2) NO BORDER

3) LINE THICKNESS

4) OUTPUT MODE

RETRIEVE MA				•			Complot
(TOTAL AND I	•						Complot
ANY SECTION							Complot
COMPARE DATA	A OVER THE	ENERG	Y RANGE 0	.1 EV TO 1	KEV. IDENT	FY	Complot
THE TWO SETS	OF DATA A	S END	F/B-V AND	ENDF/B-IV,	RESPECTIVE	LY.	Complot
ONLY PLOT TI	HOSE REACTI	ONS W	HICH DIFFE	ER AT ONE C	R MORE ENER	RGIES	Complot
BY MORE THAN							Complot
FRACTION) . 1						re c	Complot
·							-
ARE STANDARI		EITH	EK BE EXPI	LICITLY INC	LUDED, OR S	TWPLI	Complot
LEFT BLANK)	•						Complot
							Complot
THE FOLLOWIN	NG 12 INPUT	LINE	S ARE REQU	JIRED.			Complot
							Complot
0.0	10.0	0.0	10.0		3	2	Complot
ENDFB.IN1					•	_	Complot
ENDFB.IN2							-
	_	_	_		_	-	Complot
0	1	0	-2		3	1	Complot
0.01	0.0						Complot
ENDF/B-V DATA	(STANDARD)						Complot
ENDF/B-IV DATA							Complot
1023 3 1 0.1		3 2	1000.0		0		Complot
1056 3 1 0.1			1000.0		0		Complot
	1072				0		_
1065 3 1 0.1	1072	3 2	1000.0		-		Complot
					EQUEST LIST	-	Complot
			(TI	ERMINATES E	QUIVALENCE	LIST)	Complot
							Complot
EXAMPLE INPO	JT 2						Complot
							Complot
TO USE ALL (TE THE CAME	ОРТТ	ONG AG GDI	CTETED TN	EVAMBLE THE	orrer 1	Complot
							-
EXCEPT TO RI		,			UGH PU-242	THE	Complot
FOLLOWING 12	2 INPUT LIN	ES AR	E REQUIRE	ο.			Complot
							Complot
0.0	10.0	0.0	10.0		3	2	Complot
ENDFB.IN1							Complot
ENDFB.IN2							Complot
1	1	0	-2		3	1	Complot
		U	2		3	-	-
0.01	0.0						Complot
ENDF/B-V DATA	(STANDARD)						Complot
ENDF/B-IV DATA							Complot
92235 3 1 0.1	;	32	1000.0		0		Complot
92238 3 1 0.1		3 2	1000.0		0		Complot
94239 3 1 0.1	94242	3 2	1000.0		0		Complot
		_		еритиатес в	EQUEST LIST	٠,	Complot
					QUIVALENCE		-
			(11	ERMINATES E	OOLANTENCE	шы	Complot
EXAMPLE INPO							Complot
							Complot
TO USE ALL (OF THE SAME	OPTI	ONS AS SPI	ECIFIED IN	EXAMPLE IN	PUT 1,	Complot
EXCEPT TO RI	TRIEVE AND	COMP	ARE ALL MA	ATS THE FOL	LOWING 10	NPUT	Complot
LINES ARE RI	EOUIRED.						Complot
	~ .						Complot
0 0	10.0	0.0	10 0		2	2	-
0.0 ENDFB.IN1	10.0	0.0	10.0		3	_	Complot
							Complot
ENDFB.IN2							Complot
0	1	0	-2		3	1	Complot
0.01	0.0						Complot
ENDF/B-V DATA (S							Complot
ENDF/B-IV DATA	,,						Complot
1 1 1 0.0	99999	9999	0 0		0		_
1 1 U.U	22229	シフフソ					Complot
					EQUEST LIST	-	Complot
					QUIVALENCE		Complot
			NO	OTE, ZERO L	OWER AND U	PPER	Complot
			MZ	AT LIMITS I	NDICATES NO	LIMIT.	Complot
							Complot
EXAMPLE INPO	JT 4						Complot
LIMENTE LINE	/ <u>*</u> =						_
					mrov		Complot
RETRIEVE U-2						-	Complot
THE MASTER I							Complot
THE CAPTURE	, FISSION A	ND CA	PTURE TO I	FISSION RAT	IO OVER THE	ENERGY	Complot
RANGE 0.025	3 EV TO 1 K	EV. T	HE FOLLOW	ING 11 INPU	T LINES ARE	2	Complot
REQUIRED.							Complot
~							Complot
							20

RETRIEVE MATS 1023, 1056 AND 1065 THROUGH 1072, MT = 1 AND 2 Complot

0.0	10.0	0.0	10.0	3	2	Complot
ENDFB.IN1						Complot
ENDFB.IN2						Complot
1	1	0	-2	3	1	Complot
0.01	0.0					Complot
FISSION						Complot
CAPTURE						Complot
92235 3 18 0.0	0253 92235	3 18 10	00.0	0		Complot
			(TERMIN	ATES REQUEST LI	ST)	Complot
92235 3 18 922	235 3102		(MULTIP	LICATION OF 1.0	INFERRED)	Complot
			(TERMIN	ATES EQUIVALENC	E LIST)	Complot
						Complot
EXAMPLE II	NPUT 5					Complot
						Complot
IN DIFFER	ENT VERSIONS	OF THE	ENDF/B FORMA	DIFFERENT MT	NUMBERS	Complot
ARE ASSIGN	NED TO THE S	AME REAC	TION. FOR EXA	AMPLE, IN ENDF/	B-V AND	Complot
EARLIER V	ERSIONS OF E	NDF/B TH	E PHOTOELECTI	RIC CROSS SECTION	ON IS	Complot
MT=602, WI	HILE IN ENDF	/B-VI II	' IS MT=522.	IN ORDER TO COM	PARE	Complot
ASSUMING !	THAT THE MAS	TER IS E	NDF/B-VI AND	THE OTHER ENDF	B FILE	Complot
IS ENDF/B	-V (OR EARLI	ER) YOU	MAY EQUATE M	T=522 TO 602.		Complot
						Complot
WHEN COMPA	ARING PHOTOE	LECTRIC	CROSS SECTION	NS WE EXPECT TH	ERE TO BE	Complot
LARGE DIF	FERENCES NEA	R EDGES,	SINCE IT IS	UNLIKELY THAT	IWO	Complot
INDEPENDE	NT EVALUATIO	NS USE E	XACTLY THE SA	AME EDGE ENERGI	ES. FROM	Complot
A PRACTICA	AL VIEWPOINT	THESE D	IFFERENCES A	RE NOT IMPORTAN	r IF THEY	Complot
ONLY OCCUI	R OVER NARRO	W ENERGY	RANGES NEAR	ENERGIES. HOWE	VER THESE	Complot
LARGE DIF	FERENCES MAY	MAKE IT	DIFFICULT TO	SEE DIFFERENCE	ES OVER	Complot
OTHER ENE	RGY RANGES,	WHICH MA	Y BE IMPORTAL	NT. IN ORDER TO	BE ABLE	Complot
TO SEE IM	PORTANT DIFF	ERENCES	IN THE FOLLOW	VING COMPARISON	WE WILL	Complot
CONSTRAIN	THE PLOTTED	RATIO I	O THE RANGE	ABOUT 0.9 TO 1.	1 IN	Complot
ORDER TO 1	BE ABLE TO S	EE DIFFE	RENCES OF UP	TO 10 PER-CENT	. WE WILL	Complot
DO THIS BY	Y SPECIFYING	A MAXIM	UM RATIO OF 3	L.1, WHICH WILL	IN TURN	Complot
DEFINE A 1	MINIMUM RATI	O OF 1/1	1, OR ABOUT	0.9.		Complot
						Complot
IN ORDER '	TO COMPARE T	HE PHOTO	ELECTRIC CROS	SS SECTION FOR A	ALL	Complot
MATERIALS	THE FOLLOWI	NG 11 IN	IPUT LINES ARI	E REQUIRED.		Complot
						Complot
0.0	10.0	0.0	10.0	3	2	Complot
ENDFB.IN1						Complot
ENDFB.IN2						Complot
0	1	0	-2	3	1	Complot
0.01	1.1					Complot
ENDF/B-VI						Complot
ENDF/B-V						Complot
023522	99992	3522		0		Complot
			(TERMIN	ATES REQUEST LI	ST)	Complot
023522	023602		(MULTIP	LICATION OF 1.0	INFERRED)	Complot
			(TERMIN	ATES EQUIVALENC	E LIST)	Complot
						Complot
EXAMPLE II	NPUT 6					Complot
						Complot
THE SAME I	EXAMPLE AS A	BOVE, EX	CEPT THAT DI	FERENT FILENAM	ES WILL	Complot
BE USED TO	READ THE D	ATA FROM	A FILE TREE	STRUCTURE. THE	FOLLOWING	Complot
11 INPUT	LINES ARE RE	QUIRED.				Complot
						Complot
0.0	10.0	0.0	10.0	3	2	Complot
/Evaluated/E						Complot
/Evaluated/E	NDFB5/PHOTON					Complot
0	1	0	-2	3	1	Complot
0.01	1.1					Complot
ENDF/B-VI						Complot
ENDF/B-V						Complot
023522	99992	3522		0		Complot
				ATES REQUEST LI		Complot
023522	023602		(MULTIP)	LICATION OF 1.0	INFERRED)	Complot
			(TERMIN	ATES EQUIVALENC	E LIST)	Complot
						Complot
EXAMPLE II	NPUT 7					Complot
						Complot
				ARE ORIENTED WI		Complot
HORIZONTA	L AND Y VERT	ICAL. TO	CHANGE THE	ORIENTATION OF '	THE PLOTS	Complot

```
YOU NEED MERELY SPECIFY A NEGATIVE UPPER X LIMIT OF THE SIZE OF
                                                                       Complot
    THE PLOTS ON THE FIRST INPUT LINE.
                                                                       Complot
                                                                       Complot
    THE FOLLOWING EXAMPLE IS EXACTLY THE SAME AS THE ABOVE EXAMPLE,
                                                                       Complot
    EXCEPT THAT THE ORIENTATION OF THE PLOTS HAS BEEN CHANGED. THE
                                                                       Complot
    FOLLOWING 11 INPUT LINES ARE REQUIRED.
                                                                       Complot
                                                                       Complot
      0.0
               -10.0
                          0.0
                                  10.0
                                                               2
                                                                       Complot
 /Evaluated/ENDFB6/PHOTON.IN
                                                                       Complot
 /Evaluated/ENDFB5/PHOTON.IN
                                                                       Complot
                                                                       Complot
       0
                 1
                                    -2
     0.01
                 1.1
                                                                       Complot
ENDF/B-VI
                                                                       Complot
ENDF/B-V
                                                                       Complot
   023522
                    999923522
                                                    0
                                                                       Complot
                                      (TERMINATES REQUEST LIST)
                                                                       Complot
   023522
              023602
                                       (MULTIPLICATION OF 1.0 INFERRED) Complot
                                      (TERMINATES EQUIVALENCE LIST)
                                                                       Complot
                                                                       Complot
==== PLOTTER/GRAPHICS TERMINAL INTERFACE ========
                                                                       Complot
                                                                       Complot
     NON-INTERACTIVE
                                                                       Complot
    _____
                                                                       Complot
     THIS PROGRAM USES A SIMPLE CALCOMP LIKE INTERFACE INVOLVING
                                                                       Complot
     ONLY 5 SUBROUTINES,
                                                                       Complot
                                                                       Complot
     STARPLOT
                  - INITIALIZE PLOTTER
                                                                       Complot
     NEXTPLOT
                 - CLEAR SCREEN FOR NEXT PLOT
                                                                       Complot
                  - TERMINATE PLOTTING
     ENDPLOTS
                                                                       Complot
                                                                       Complot
     PLOT(X,Y,IPEN)
                           - DRAW OR MOVE FROM LAST LOCATION TO (X,Y),
                                                                       Complot
                             END OF CURRENT PLOT OR END OF PLOTTING.
                                                                       Complot
           IPEN = 2 - DRAW
= 3 - MOVE
                                                                       Complot
                                                                       Complot
                                                                       Complot
                           - SELECT COLOR.
                                                                       Complot
         IPEN- COLOR = 1 TO N (N = ANY POSITIVE INTEGER)
                                                                       Complot
                                                                       Complot
     BOXCOLOR(X,Y,IFILL,IBORDER) - FILL A RECTANGLE WITH COLOR
                                                                       Complot
                                 = DEFINE THE CORNERS OF THE BOX
                                                                       Complot
                  IFILL
                                 = COLOR TO FILL BOX WITH
                                                                       Complot
                        IBORDER = COLOR OF BORDER OF BOX
                                                                       Complot
                                                                       Complot
                                                                       Complot
     INTERACTIVE
                                                                       Complot
     THIS PROGRAM INCLUDES AN INTERACTIVE INTERFACE FOR USE WITH A
                                                                       Complot
     MOUSE. THE INTERFACE INVOLVES 2 SUBROUTINE,
                                                                       Complot
                                                                       Complot
     INTERACT (MYACTION)
                                    - WHETHER OR NOT INTERACTION
                                                                       Complot
                                    = 0 - NO (RETURNED BY INTERACT)
                                                                       Complot
                                    = 1 - YES (RETURNED BY INTERACT)
                                                                       Complot
                                                                       Complot
     MOUSEY(IWAY, XI, YI, IWAY1, IWAY2) - READ POSITION OF MOUSE
                                                                       Complot
                                    = 0 - NO INPUT
                                                                       Complot
                            IWAY
                                    = 1 - LEFT BUTTON
                                                                       Complot
                                    = 2 - MIDDLE BUTTON
                                                                       Complot
                                    = 3 - RIGHT BUTTON
                                                                       Complot
                                    = 4 - KEYBOARD INPUT
                                                                       Complot
                                    = X POSITION IN LOCAL UNITS
                                                                       Complot
                            ΧI
                                    = Y POSITION IN LOCAL UNITS
                                                                       Complot
                            YΤ
                            IWAY1
                                    = MINIMUM ALLOWABLE IWAY
                                                                       Complot
                            IWAY2
                                   = MAXIMUM ALLOWABLE IWAY
                                                                       Complot
                                                                       Complot
    AS USED BY THIS PROGRAM IWAY1
                                                                       Complot
                            IWAY2
                                   = 4
                                                                       Complot
    KEYBOARD INPUT (IWAY=4) MEANS NO ZOOMED PLOT REQUESTED.
                                                                       Complot
    MOUSE INPUT (IWAY=1 TO 3) MEANS A ZOOMED PLOT IS REQUESTED.
                                                                       Complot
    MOUSEY WILL BE CALLED ONCE TO SEE IF A ZOOMED PLOT IS REQUESTED.
                                                                       Complot
    IF IT IS XI WILL BE USED TO DEFINE ONE X (E.G., ENERGY) LIMIT OF
                                                                       Complot
    THE ZOOMED PLOT. MOUSEY WILL THEN BE CALLED A SECOND TIME TO
                                                                       Complot
    DEFINE A SECOND XI TO DEFINE THE OTHER X LIMIT OF THE ZOOMED
                                                                       Complot
```

PLOT.	Complot
IF YOU DO NOT WANT INTERACTION YOU SHOULD INCLUDE THE FOLLOWING	Complot Complot
SUBROUTINES IN YOUR GRAPHIC INTERFACE,	Complot
CURROUNTING THERED OF (AGE OF TOX)	Complot
SUBROUTINE INTERACT (MYACTION) MYACTION=0	Complot
MYACTION=U RETURN	Complot Complot
END	Complot
SUBROUTINE MOUSEY(IWAY,XI,YI,IWAY1,IWAY2)	Complot
IWAY=4	Complot
XI=0.0	Complot
YI=0.0	Complot
RETURN	Complot
END	Complot
	Complot
ALTERNATIVE INTERACTIVE	Complot
	Complot
IF YOU DO NOT HAVE A MOUSE BUT WOULD STILL LIKE TO INTERACTIVE	Complot
INPUT YOU CAN REPLACE SUBROUTINE ACTION IN THIS PROGRAM.	Complot
AC DISMOSTRIMED SUPPOSITIVE ACMION USES A MOUSE TO DESINE LOWED	Complot
AS DISTRIBUTED SUBROUTINE ACTION USES A MOUSE TO DEFINE LOWER AND UPPER ENERGY (OR X) LIMITS WHICH ARE USED TO PRODUCE THE	Complot
NEXT PLOT. A CALL TO ACTION IS OF THE FORM,	Complot Complot
NEAT FLOT: A CALL TO ACTION IS OF THE FORM,	Complot
CALL ACTION (KACTV, XACT1, XACT2)	Complot
	Complot
KACTV = 0 - NO INTERACTIVE INPUT	Complot
= 1 - INTERACTIVE INPUT	Complot
XACT1 = LOWER ENERGY LIMIT	Complot
XACT2 = UPPER ENERGY LIMIT	Complot
	Complot
IF THERE IS NO INTERACTIVE INPUT THE PROGRAM WILL PROCEED TO THE	Complot
NEXT PLOT REQUESTED BY NON-INTERACTIVE INPUT.	Complot
	Complot
IF THERE IS INTERACTIVE INPUT THE PROGRAM WILL USE XACT1 AND	Complot
XACT2 TO DEFINE THE ENERGY LIMITS OF THE NEXT PLOT USING THE	Complot
SAME DATA AS APPEARED ON THE LAST PLOT. AS WITH NON-INTERACTIVE INPUT, IF YOU SELECT AN ENERGY RANGE WHERE THE MAXIMUM DIFFERENCE	Complet
IS LESS THAN THAT SPECIFIED BY INPUT NO PLOT WILL BE PRODUCED	Complot Complot
AND THE CODE WILL PROCEED TO THE NEXT PLOT REQUESTED BY	Complot
NON-INTERACTIVE INPUT.	Complot
	Complot
YOU CAN REPLACE SUBROUTINE ACTION FOLLOWING THE ABOVE CONVENTIONS	Complot
TO ALLOW INTERACTION VIA DIRECT READ OF X LIMITS, LIGHTPEN OR	Complot
WHATEVER FACILITIES YOU HAVE AVAILABLE.	Complot
	Complot
INTERFACING	Complot
	Complot
IN ORDER TO INTERFACE THIS PROGRAM FOR USE ON ANY PLOTTER WHICH	Complot
DOES NOT USE THE ABOVE CONVENTIONS IT IS MERELY NECESSARY FOR THE	Complot
THE USER TO WRITE 5 SUBROUTINES DESCRIBED ABOVE AND TO THEN CALL	Complot
THE LOCAL EQUIVALENT ROUTINES.	Complot
COLOR PLOTS	Complot Complot
	Complot
TO SELECT PLOTTING COLORS SUBROUTINE PEN (DESCRIBED ABOVE) IS USED	
TO SELECT ONE OF THE AVAILABLE COLORS. WHEN RUNNING ON A MAINFRAME	
USING AN IBM GRAPHICS TERMINAL OR ON AN IBM-PC USING A HEWLETT-	Complot
PACKARD PLOTTER THE GRAPHICS INTERFACE (DESCRIBED ABOVE) WILL	Complot
PRODUCE COLOR PLOTS.	Complot
	Complot
BLACK AND WHITE PLOTS	Complot
	Complot
WHEN PRODUCING BLACK AND WHITE HARDCOPY ON A MAINFRAME THE USER	Complot
SHOULD ADD A DUMMY SUBROUTINE PEN TO THE END OF THE PROGRAM TO	Complot
IGNORE ATTEMPTS TO CHANGE COLOR. ADD THE FOLLOWING SUBROUTINE,	Complet
SUBDOUTINE DEN/IDEN)	Complot Complot
SUBROUTINE PEN (IPEN) RETURN	Complot
END	Complot
	J0P10 C

Complot Complot CHARACTER SET ._____ Complot THIS PROGRAM USES COMPUTER AND PLOTTER DEVICE INDEPENDENT SOFTWARE Complot CHARACTERS. THIS PROGRAM COMES WITH A FILE THAT DEFINES THE PEN STROKES REQUIRED TO DRAW ALL CHARACTERS ON AN IBM KEYBOARD (UPPER Complot AND LOWER CASE CHARACTERS, NUMBERS, ETC.) PLUS AN ALTERNATE SET OF Complot ALL UPPER AND LOWER CASE GREEK CHARACTERS AND ADDITIONAL SPECIAL SYMBOLS. Complot Complot THE SOFTWARE CHARACTER TABLE CONTAINS X AND Y AND PEN POSITIONS TO Complot DRAW EACH CHARACTER. IF YOU WISH TO DRAW ANY ADDITIONAL CHARACTERS Complot OR TO MODIFY THE FONT OF THE EXISTING CHARACTERS YOU NEED ONLY Complot MODIFY THIS TABLE. Complot Complot CONTROL CHARACTERS Complot Complot IN THE SOFTWARE CHARACTER TABLE ALL CHARACTERS TO BE PLOTTED WILL Complot HAVE PEN POSITION = 2 (DRAW) OR = 3 (MOVE). IN ADDITION THE TABLE Complot CURRENTLY CONTAINS 4 CONTROL CHARACTERS, Complot Complot PEN POSITION = 0Complot Complot SHIFT THE NEXT PRINTED CHARACTER BY X AND Y. 3 CONTROL CHARACTERS Complot ARE PRESENTLY INCLUDED IN THE SOFTWARE CHARACTER TABLE TO ALLOW Complot SHIFTING. Complot Complot = SHIFT UP (FOR SUPERSCRIPTS.....X= 0.0, Y= 0.5) Complot = SHIFT DOWN (FOR SUBSCRIPTS.....X= 0.0, Y=-0.5) Complot = SHIFT LEFT 1 CHARACTER (FOR BACKSPACE...X=-1.0, Y= 0.0) Complot Complot PEN POSITION =-1Complot -----Complot SELECT THE NEXT PRINTED CHARACTER FROM THE ALTERNATE CHARACTER Complot SET. AT PRESENT THIS CONTROL CHARACTER IS, Complot Complot = SWITCH TO ALTERNATE CHARACTER SET Complot Complot THESE 4 CONTROL CHARACTERS ARE ONLY DEFINED BY THE VALUE OF THE Complot PEN POSITION IN THE SOFTWARE CHARACTER TABLE (I.E., THEY ARE NOT Complot HARD WIRED INTO THIS PROGRAM). AS SUCH BY MODIFYING THE SOFTWARE Complot CHARACTER TABLE THE USER HAS THE OPTION OF DEFINING ANY CONTROL Complot CHARACTERS TO MEET SPECIFIC NEEDS. Complot Complot THESE CHARACTERS MAY BE USED IN CHARACTER STRINGS TO PRODUCE Complot SPECIAL EFFECTS. FOR EXAMPLE, TO PLOT SUBSCRIPT 5, B, SUPERSCRIPT Complot 10 USE THE STRING, Complot Complot }5B{1{0 Complot Complot TO PLOT B, SUBSCRIPT 5 AND SUPERSCRIPT 10 WITH THE 5 DIRECTLY Complot BELOW THE 1 OF THE 10 WE CAN USE THE BACKSPACE CHARACTER TO Complot POSITION THE 1 DIRECTLY ABOVE THE 5 USING THE STRING, Complot Complot B}5\{1{0 Complot Complot TO PLOT UPPER CASE GREEK GAMMA FOLLOWED BY THE WORD TOTAL (I.E., Complot RESONANCE TOTAL WIDTH) USE THE STRING. Complot Complot]G TOTAL Complot Complot NOTE, WHEN THESE CONTROL CHARACTERS ARE USED THEY ONLY EFFECT THE Complot NEXT 1 PRINTED CHARACTER (SEE, ABOVE EXAMPLE OF PLOTTING SUPER-Complot SCRIPT 10 WHERE THE SHIFT UP CONTROL CHARACTER WAS USED BEFORE THE Complot 1 AND THEN AGAIN BEFORE THE 0 AND THE BACKSPACE AND SHIFT UP Complot CONTROL CHARACTERS WERE USED IN COMBINATION). Complot Complot IF THESE 4 CONTROL CHARACTERS ARE NOT AVAILABLE ON YOUR COMPUTER Complot YOU CAN MODIFY THE SOFTWARE CHARACTER TABLE TO USE ANY OTHER 4 Complot CHARACTERS THAT YOU DO NOT NORMALLY USE IN CHARACTER STRINGS (FOR Complot

Complot

DETAILS SEE THE SOFTWARE CHARACTER TABLE).

STANDARD/ALTERNATE CHARACTER SETS	Comp
THE SOFTWARE CHARACTER TABLE CONTAINS 2 SETS OF CHARACTERS WHICH	Com
ARE A STANDARD SET (ALL CHARACTERS ON AN IBM KEYBOARD) AND AN	Comp
ALTERNATE SET (UPPER AND LOWER CASE GREEK CHARACTERS AND SPECIAL	Comp
CHARACTERS). TO DRAW A CHARACTER FROM THE ALTERNATE CHARACTER SET	Comp
PUT A RIGHT BRACKET CHARACTER (]) BEFORE A CHARACTER (SEE THE	Comp
ABOVE EXAMPLE AND THE SOFTWARE CHARACTER TABLE FOR DETAILS). THIS	Comp
CONTROL CHARACTER WILL ONLY EFFECT THE NEXT 1 PLOTTED CHARACTER.	Comp
	Comp
SUB AND SUPER SCRIPTS	Com
	COM
TO DRAW SUBSCRIPT PRECEED A CHARACTER BY }. TO DRAW SUPERSCRIPT	Comp
PRECEED A CHARACTER BY { (SEE THE ABOVE EXAMPLE AND THE SOFTWARE	Com
CHARACTER TABLE FOR DETAILS). THESE CONTROL CHARACTER WILL ONLY	Com
EFFECT THE NEXT 1 PLOTTED CHARACTER.	Com
	Com
BACKSPACING	Comp
TO BACKSPACE ONE CHARACTER PRECEED A CHARACTER BY \ (SEE, THE	Comp
ABOVE EXAMPLE AND THE SOFTWARE CHARACTER TABLE FOR DETAILS). THIS	Com
CONTROL CHARACTER WILL PERFORM A TRUE BACKSPACE AND WILL EFFECT	Com
ALL FOLLOWING CHARACTERS IN THE SAME CHARACTER STRING.	Com
And following christians in the brane christian string.	Com
PLOT DIMENSIONS	Com
	Com
ARE DEFINED BY USER INPUT. INTERNALLY THE PROGRAM WILL CREATE A	Com
PLOT IN APPROXIMATELY A4 OR 8-1/2 BY 11 INCH FORMAT. DURING	Com
OUTPUT THE PLOT IS TRANSFORMED TO THE UNITS (INCHES, CENTIMETERS,	Com
MILLIMETERS, WHATEVER) OF THE PLOTTER BEING USED AND OUTPUT.	Com
	Comp
= PLOTTER/GRAPHICS TERMINAL INTERFACE =======================	Com
	_