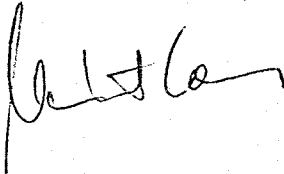


Memo 4C-3/266

To: Distribution

1983-08-19

From: M. Lammer



Subject: New format of CINDA supplements

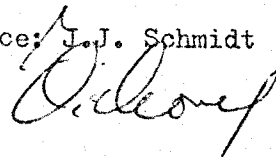
As already announced in Memo 4C-3/263, we have modified the CINDA programs for the supplements only such that entries for different elements are separated by double-dashed lines instead of starting with a new page. Samples of the first and last few pages of CINDA 82 Supplement in the new format are attached.

This new arrangement will save approximately 50 pages on CINDA entries. Another 35 pages will be saved by omitting all introductory pages and parts of the Annex that remain unchanged. Hence the supplement will contain only the following text pages:

- Legal notice
- Table of contents (including a note referring to the main volume for further information)
- Foreword (in 4 languages)
- Selected literature scanned for the present edition
- Neutron data handbooks (reduced to include only handbooks not appearing in the main volume)
- Tables 3 and 4 of the Annex.

Please, communicate any comments you may have to me.

Clearance: J.J. Schmidt



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1 Hydrogen 1

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Total	2.8+7	4.1+7	CLU	Expt	Abst	BAP 27 4 544	Apr 82	Gordon+(GYA16),NDG.AGREE WITH OTHERS	
Total	4.0+7	7.7+8	LAS	Expt	Jour	PRL 49 4 255	Jul 82	Lisowski+GRPH.CFD EXPT,THEORY	
	5.0+6	2.0+8			Conf	80BNL 301	Jul 80	- +TOF,TRNS.GRPH.CFD OTHS.ENDF	
Diff Elastic	1.0+7	2.0+7	PAR	Theo	Conf	80Santa Fe 114	Aug 80	Cote+GRPH,PARIS POT.CFD EXPT	
Diff Elastic	4.5+7	7.5+7	LVN	Expt	Conf	82Antwerp 155	Sep 82	Bol+ 3-10 DEGR LAB-SYS, PLAST SCINT	
Polarization	1.3+7	1.7+7	TNL	Expt	Jour	NP/A 340 1 34	May 80	Tornow+ANAL PWR.TBL,GPPHS.CFD.	+
	1.7+7				Conf	80Santa Fe 117	Aug 80	- +MULT.SCAT.CORR - M.C.	
	1.4+7	1.6+7			Conf	76Lowell 1358	Oct 77	- +ANAL PWR.GRPHS.CFD OTHS,CALC.	
	1.4+7				Conf	75Zurich 439	Jul 76	- +2ES.ANAL PWR.CFD ARNDT.NDG	
	1.3+7	1.7+7			Data	EXFOR12722.002	Aug 75	- + POLARIZATION. GRPH.	
Polarization	1.0+7	2.0+7	PAR	Theo	Conf	80Santa Fe 114	Apr 82	14 PTS. ANALYZING POWER. 4 ES.	
							Aug 80	Cote+GRPH,PARIS POT.CFD EXPT	

1 Deuterium 2

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Elastic	1.0+7		TLU	Expt	Prog	KDK - 53 29	Jun 82	Glantz+	
Diff Elastic	None		JAP	Theo	Jour	PTP 66 1899	Nov 81	Koike+SIG SENSITIVE TO S-WAVE FCT	
Diff Elastic	1.4+7		LAS	Theo	Prog	LA - 9262 1	Mar 82	Hale.GRPHS NEUT.SPECTRA	
Diff Elastic	5.0+7		DAV	Expt	Jour	PR/C 25 5 2214	May 82	Romero+TBL.GRPH ANAL.POWERANG.GT.90	
Diff Elastic	5.0+7		DAV	Expt	Jour	PR/C 25 5 2219	May 82	Watson+TBL.GRPH ANAL.POWER ANGLT.90	
Diff Elastic	1.0+7		TNL	Expt	Jour	PRL 49 5 312	Aug 82	Tornow+GRPHS,ANALYSING POWER CFD CAL	
	1.0+7	1.4+7		Revw	Conf	80Santa Fe 344	Aug 80	Walter.GRPH,ANAL.POWER	
Polarization	None		JAP	Theo	Jour	PTP 66 1899	Nov 81	Koike+POL SENSITIVE TO S-WAVE FCT	
Polarization	5.0+7		DAV	Expt	Jour	PR/C 25 5 2219	May 82	Watson+TBL.GRPH ANAL.POWER ANGLT.90	
Polarization	5.0+7		DAV	Expt	Jour	PR/C 25 5 2214	May 82	Romero+TBL.GRPH ANAL.POWERANG.GT.90	
					Conf	76Lowell 1273	Jul 76	Brady+POL N USED.NDG	
					Conf	76Lowell 1356	Jul 76	Romero+80-150DEG.CFD (P,D)DATA.NDG	
Polarization	1.0+7		TNL	Expt	Jour	PRL 49 5 312	Aug 82	Tornow+GRPHS,ANALYSING POWER CFD CAL	
(n, γ)	2.5-2		LAS	Expt	Jour	PR/C 25 5 2810	May 82	Jurney+MEAS.REL 332MB FOR H1	
(n,2n)	None		KYU	Theo	Jour	PTP 65 2046	Jun 81	Yahiro+ANTISYMMETRIZED C-C METHOD	
(n,2n)	None		KYU	Theo	Jour	PTP 65 2516	Jun 81	Yahiro+ANTISYMMETRIZED C-C METHOD2	
(γ ,n)	1.0+7	4.0+7	FRA	Expt	Conf	LBL-11118 77	Aug 80	Del Bianco+ABST 80BERKELEY,GRPH	
(γ ,n)	6.5+8	1.0+9	KFT	Expt	Jour	ZEP 34 410	Oct 81	Bratashevskij+ POLRZ OF PS,TBL,GRPHS	
					Jour	JEL 34 389	Oct 81	ENGLISH OF ZEP 34,410	
(γ ,n)	2.2+6	1.3+8	FIR	Theo	Jour	PRL 48 7 462	Feb 82	Cambi+GRPH,RELATIVISTIC CORR FWD CS	
(γ ,n)	2.2+6	1.9+7	ANL	Expt	Abst	BAP 27 4 570	Apr 82	Stephenson+(KE10),NDG.CFD THEORY	

2 Helium 3

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Polarization	9.0+6		TNL	Expt	Jour	PR/C 25 4 2111	Apr 82	Weller+GRPH ANGDIST,TBL AN,BN	
					Conf	LBL-11118 177	Aug 80	Ward+ABST 80 BERKELEY.ANAL PWR.NDG.	
(n, γ)	9.0+6		TNL	Expt	Jour	PR/C 25 4 2111	Apr 82	Weller+GRPH ANGDIST,TBL AN,BN	
					Revw	80Santa Fe 308	Aug 80	- .GRPH,ANG DISTR.	
(n,p)	Maxwl		LIN	Expt	Jour	ZEP 33 429	Apr 81	Vesna+ POLRZD NEUTS,TBL ASYM - COEFFS	
					Jour	JEL 33 411	Apr 81	ENGLISH OF ZEP 33,429	

2 Helium 4

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Diff Elastic	3.0+7		KRU	Theo	Jour	ZP/A 307 3 275	Aug 82	Froehlich. EL - MAGN CONTRIBUTIONS	
Polarization	5.0+7		DAV	Expt	Jour	PR/C 25 3 1685	Mar 82	Sagle+GRPH,ANGDIST CFD CHARGE SYM.	
Polarization	3.0+7		KRU	Theo	Jour	ZP/A 307 3 275	Aug 82	Froehlich. EL - MAGN CONTRIBUTIONS	
(n,d)	5.0+7		DAV	Expt	Jour	PR/C 25 3 1685	Mar 82	Sagle+GRPH,ANGDIST CFD CHARGE SYM.	
					Abst	DA/B 36 6241	Jun 76	- .ANAL PWR+DIFF CS	

3 Lithium

Quantity	Energy (ev)		Lab	Type	Documentation		Author, Comments	Data
	Min	Max			Ref Vol	Page		
Diff Elastic	1.5+7		WPI Expt	Diss	DANAHY		81 Danahy.TBL CFD OTHERS	
(n,a)	1.5+7		AI Expt	Prog	DA/B 40 10 4881	Apr 80	- .COINCIDENCE.ANGDIST.NDG	
					DOE - NDC - 27 144	Apr 82	Kneff + NDG.TBC	

3 Lithium 6

Quantity	Energy (ev)		Lab	Type	Documentation		Author, Comments	Data
	Min	Max			Ref Vol	Page		
Total	7.0+4	5.0+5	ANL Expt	Prog	DOE - NDC - 27	Apr 82	Poenitz. PAGE A - 7. NDG. TBC.	
Elastic	7.8+6		TUD Expt	Prog	ZFK - 443 13	May 81	Foertsch + ANG INTEG SIG CFD OTHS.TBL	+
	7.8+6			Data	EXFOR30624.002	Apr 82	1 PNT	
Elastic	7.0+4	5.0+5	ANL Expt	Prog	DOE - NDC - 27	Apr 82	Poenitz. PAGE A - 7. NDG. TBC.	
Diff Elastic	7.5+6	1.4+7	JAP Theo	Jour	AKE 40 2 119	82	Komoda + CLUSTERING EFFECTS, ANGDIST	
Polarization	1.2+7	5.0+7	MIN Theo	Jour	PR/C 25 6 2902	Jun 82	Lemere + GRPH,CALC.CFD EXPT.2 ENERGIES	
Diff Inelast	4.5+6	6.4+6	OHO Expt	Abst	BAP 27 5 624	May 82	Sadowski + NDG.	
(n,d)	1.4+7		YOK Expt	Jour	NP/A 384 1 51	Aug 82	Higuchi + ANGDIST,E SPECTRA,TBL,GRAPH	
(n,nd)	0.0+0	1.4+7	BRC Theo	Prog	CEA - N - 2284 137	May 82	Hale + SHORT ABSTRACT,GRAPHS	
(n,t)	8.0+4	5.4+6	LAS Expt	Rept	LA - 9129	Jan 82	Drog + R - MATRIX USING INVERSE REACT.	
(n,t)	1.5+7		AI Expt	Prog	DOE - NDC - 27 144	Apr 82	Kneff + NDG.TBC	
(n,t)	7.0+4	5.0+5	ANL Expt	Prog	DOE - NDC - 27	Apr 82	Poenitz. PAGE A - 7. NDG. TBC.	
(n,t)	2.0+6	2.5+6	OHO Expt	Prog	DOE - NDC - 27 133	Apr 82	Knox + NDG.ANAL.TBD.	
(n,t)	2.0+5	2.8+6	TLU Expt	Prog	KDK - 53 30	Jun 82	Andersson + INVERSE	
(n,t)	2.0+5	2.8+6	TLU Expt	Prog	KDK - 53 30	Jun 82	Andersson +	
(n,t)	1.4+7		YOK Expt	Jour	NP/A 384 1 51	Aug 82	Higuchi + ANGDIST,E SPECTRA,TBL,GRAPH	
(n,t)	2.0+5	3.0+6	FOA Expt	Conf	82Antwerp 85	Sep 82	Conde + (+UPP) + INVERSE REACTION.	
(n,nt)	0.0+0	1.4+7	BRC Theo	Prog	CEA - N - 2284 137	May 82	Hale + SHORT ABSTRACT,GRAPHS	

3 Lithium 7

Quantity	Energy (ev)		Lab	Type	Documentation		Author, Comments	Data
	Min	Max			Ref Vol	Page		
Total	2.0+6	1.6+7	LAS Eval	Abst	ANS 39 1 272	Nov 81	Young. GRPH CFD EXPT,ENDF	
Elastic	2.0+6	1.6+7	LAS Eval	Abst	ANS 39 1 272	Nov 81	Young.GRPH ELASTIC +478KEV LVL CS	
Diff Elastic	1.5+7		WPI Expt	Abst	DA/B 4 0104	Aug 81	Danahy. NDG.	+
	1.5+7			Data	EXFOR12700.002	Dec 81	11 PTS. ANG. DISTR.	
Diff Elastic	7.0+6	1.4+7	JAP Theo	Jour	AKE 40 2 119	82	Komoda + CLUSTERING EFFECTS, ANGDIST	
Diff Elastic	None		OHO Eval	Prog	DOE - NDC - 27 134	Apr 82	Knox + NDG.ANAL.TBD.	
Diff Inelast	1.5+7		WPI Expt	Diss	DANAHY	81	Danahy.TBL CFD OTHERS	+
				Abst	DA/B 40 10 4881	Apr 80	- .COINCIDENCE.ANGDIST.NDG	
Diff Inelast	1.5+7			Data	EXFOR12700.003	Dec 81	12 PTS. ANG.DISTR.	
	9.8+6		TUD Expt	Prog	ZFK - 443 13	May 81	Foertsch + TBL SIG TO N2 LVL	+
	9.8+6			Data	EXFOR30624.005	Apr 82	PARTIAL SIG TO 4.63 MEV LVL, 1 PNT	
Diff Inelast	2.0+6	1.6+7	LAS Eval	Abst	ANS 39 1 272	Nov 81	Young.GRPH ELASTIC +478KEV LVL CS	
Diff Inelast	None		OHO Eval	Prog	DOE - NDC - 27 134	Apr 82	Knox + NDG.ANAL.TBD.	
Scattering	6.8+6	9.8+6	TUD Expt	Prog	ZFK - 443 13	May 81	Foertsch + TBL SIG(N,N0+NI) CFD OTHS	+
	6.8+6	9.8+6		Data	EXFOR30624.004	Apr 82	PARTL SIG TO GND+0.48MEV LVLS,2 PNTS	
(n,t)	None		OHO Eval	Prog	DOE - NDC - 27 134	Apr 82	Knox + NDG.ANAL.TBD.	
(n,nt)	1.5+7	2.0+7	JUL Expt	Conf	80Kiev 1 215	Sep 80	Qaim + EXPT WITH GEBL STARTED.NO DATA	
(n,nt)	6.0+6	1.0+7	GEL Expt	Prog	INDC(EUR)15 19	Mar 82	Liskien + ANGDIST,LEG COBF,ENDF	+
				Prog	INDC(EUR)14	Mar 81	- + DIRECT DET OF TRITONS.	
	4.0+6	1.9+7	Revw	Conf	IAEA - 223 185	Dec 79	- . GRPH:DATA POOR.NEW XPTS TBD	
	6.0+6	1.0+7	Expt	Data	EXFOR21749.	Feb 82	25PTS.ANGDIST + SPTS.SIGMA	
(n,nt)	1.0+5	2.0+7	LAS Eval	Prog	DOE - NDC - 27 75	Apr 82	Young. GRPH CFD EXPT,ENDF	
(n,nt)	4.7+6	1.6+7	GEL Expt	Conf	82Antwerp 57	Sep 82	Liskien + ACT METHOD	
	4.7+6	8.0+6		Prog	INDC(EUR)15 19	Mar 82	- +ACT METHOD	
(n,a)	1.5+7		AI Expt	Prog	DOE - NDC - 27 144	Apr 82	Kneff + NDG.TBC	

4 Beryllium 9

Quantity	Energy (ev)		Lab	Type	Documentation		Author, Comments	Data
	Min	Max			Ref Vol	Page		
Total	2.4-4	3.0-1	JAP Expt	Conf	82Antwerp 54	Sep 82	Aizawa + (MUSASHI INST) COMP ENDFB4.	
Diff Elastic	1.4+7		LRL Expt	Prog	DOE - NDC - 27 51	Apr 82	Hansen + SIG CFD EXPT.NDG	
Diff Inelast	1.4+7		LRL Expt	Prog	DOE - NDC - 27 51	Apr 82	Hansen + SIG CFD EXPT.NDG	
(n,a)	None		AI Expt	Conf	80BNL 289	Jul 80	Kneff + CS MEAS TO BE ANALYZED.NDG.	

5 Boron

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
(n.a)	1.5	+7	AI	Expt Prog	DOE - NDC - 27	144	Apr 82	Kneff + NDG.TBC	

5 Boron 10

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Diff Elastic	8.0	+6	TNL	Expt Jour	NSE 80 2 256			Feb 82	Glendinning + GRPH,CFD MDL CALC	+
								Jul 80	Walter + GRPH.EXPT MEAS CFD OPTMDL	
								Apr 79	Glendinning + TOF.7ES.ANGDIST.OPTMDL	
Diff Inelast	8.0	+6	TNL	Expt Jour	NSE 80 2 256			Nov 79	174 PTS ANGDIST,7 ES.	+
								Feb 82	Glendinning + GRPH,CFD MDL CALC	
								Nov 79	91 PTS ANGDIST,7 ES.2 PTS INTEG CS	
(n.a)	None		AI	Expt Conf	80BNL 289			Jul 80	Kneff + CS MEAS TO BE ANALYZED.NDG.	
(n.a)	Maxwt		LIN	Expt Jour	ZEP 33 429			Apr 81	Vesna + POLRZD NEUTS,TBL ASYM - COEFFS	
				Jour	JEL 33 411			Apr 81	ENGLISH OF ZEP 33,429	

5 Boron 11

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Diff Elastic	2.6	+6	OHO	Expt Jour	NP/A 340 1 13			May 80	White + LEG COEF.GRPH.R - MATRIX.CFD.	+
								Nov 77	- .TOF.ANGDIST.R - MATRIX ANAL.CFD	
								Jun 77	- +9ANGS.60ES.R MATRIX.TBL.S.CFD.	
								Jul 76	Lane + VDG,TOF,9AS.LEG COEFS,GRPHS.	
Diff Elastic	4.0	+6	TNL	Expt Jour	NSE 80 2 256			Aug 81	549 PTS.ANG DISTR.	+
								Feb 82	Glendinning + GRPH,CFD MDL CALC	
								Jul 80	Walter + GRPH.EXPT MEAS CFD OPTMDL.TBC	
								Apr 78	Purser + 9 - 12 MEV,5 ANGDIST CURVS.TBC	
Diff Inelast	8.0	+6	TNL	Expt Jour	NSE 80 2 256			Apr 78	Glendinning + TOF.OPTMDL FIT.NDG.	+
								Nov 79	175 PTS ANGDIST,7 ES.	
								Feb 82	Glendinning + GRPH,CFD MDL CALC	
								Apr 78	Purser + 9 - 12 MEV,5 ANGDIST CURVS.TBC	
Diff Inelast	7.5	+6	OHO	Eval Prog	DOE - NDC - 12 294			Apr 78	Glendinning + TOF.25 TO 160 DEG.NDG.	+
								Nov 79	512 PTS ANGDIST,23 PTS INTEG CS.	
								Apr 82	Koehler + R - MATRIX ANAL.CFD EXPT.	
								Jul 80	Kneff + CS MEAS TO BE ANALYZED.NDG.	
(n.a)	None		AI	Expt Conf	80BNL 289					

6 Carbon 12

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Total	2.8	+7	CLU	Expt Abst	BAP 27 4 544			Apr 82	Gordon + (GYA16),NDG.AGREE WITH OTHERS	
Total	None		OHO	Expt Prog	DOE - NDC - 27 129			Apr 82	Knox + NDG.TBP NP/A	
Total	2.4	-4	JAP	Expt Conf	82Antwerp 54			Sep 82	Aizawa + (MUSASHI INST) COMP ENDFB4.	
Total	6.0	+6	TOH	Expt Conf	82Antwerp 63			Sep 82	Takakashi + BENCHMARK, DLC - 58(ENDFB4)	
Diff Elastic	8.9	+6	TUE	Theo Conf	80Santa Fe 410			Aug 80	Woye + GRPHS OPT.MDL.ANAL.POWER CFD EX	
Diff Elastic	1.4	+7	LRL	Expt Prog	DOE - NDC - 27 51			Apr 82	Hansen + SIG CFD EXPT.NDG	
Diff Elastic	None		OHO	Expt Prog	DOE - NDC - 27 129			Apr 82	Knox + NDG.TBP NP/A	
Diff Elastic	2.1	+7	OHO	Expt Abst	BAP 27 4 544			Apr 82	Meigooni + (GYA15),2,3 - STATES MEAS.	
Diff Elastic	4.5	+7	LVN	Expt Conf	82Antwerp 155			Sep 82	Boi + 3 - 10 DEGR LAB - SYS, PLAST SCINT	
Diff Elastic	1.0	+7	PTB	Expt Conf	82Antwerp 206			Sep 82	Siebert + SAMPLE SIZE CORR,CMP ENDFB5	
Diff Elastic	7.6	+6	THS	Expt Conf	82Antwerp 156			Sep 82	Grum + BE - 9 N - SOURCE.	
Diff Elastic	6.0	+6	TOH	Expt Conf	82Antwerp 63			Sep 82	Takakashi + BENCHMARK, DLC - 58(ENDFB4)	
Polarization	1.8	+7	LVN	Expt Jour	PR/C 25 6 2883			Jun 82	Debroux + ANALYZING EFFICIENCY MEAS.	
Polarization	7.6	+6	THS	Expt Conf	82Antwerp 156			Sep 82	Grum + BE - 9 N - SOURCE.	
Diff Inelast	8.9	+6	TUE	Theo Conf	80Santa Fe 410			Aug 80	Woye + GRPHS OPT.MDL.ANAL.POWER CFD EX	
Diff Inelast	1.4	+7	LRL	Expt Prog	DOE - NDC - 27 51			Apr 82	Hansen + SIG CFD EXPT.NDG	
Diff Inelast	None		OHO	Expt Prog	DOE - NDC - 27 129			Apr 82	Knox + NDG.TBP NP/A	
Diff Inelast	2.1	+7	OHO	Expt Prog	DOE - NDC - 27 129			Apr 82	Meigooni + NDG.	
Diff Inelast	1.4	+7	IRK	Expt Conf	82Antwerp 118			Sep 82	Koch + (+ETH) INTERMEDIATE STATE	
Diff Inelast	1.0	+7	PTB	Expt Conf	82Antwerp 206			Sep 82	Siebert + SAMPLE SIZE CORR,CMP ENDFB5	
Diff Inelast	6.0	+6	TOH	Expt Conf	82Antwerp 63			Sep 82	Takakashi + BENCHMARK, DLC - 58(ENDFB4)	
(n,y)	2.5	-2	LAS	Expt Jour	PR/C 25 5 2810			May 82	Jurney + MEAS.REL 332MB FOR H1	
Inelastic y	+6	9.0	KUR	Expt Jour	AE 49 236			Oct 80	Savin + GAM(4.4MEV) - PRODUCTN SIG,GRPH	
	1.0	+6		Jour	SJA 49 686			Apr 81	ENGLISH OF AE 49,236	

6 Carbon 12

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
(n,a)	None		OHO	Expt	Prog	DOE - NDC - 27	129	Apr 82	Knox + NDG.TBP NP/A	
(n,a)	3.0+6	1.0+7	PTB	Expt	Conf	\$2Aantwerp	119	Sep 82	Dietze + FROM NE213 RESPONSE FCINS.	
	+6	+7			Prog	NEANDC(E)222	5	Jul 81	Klein + VOL.5.P.59.SIG.EXCIT - F.TBC,NDG	
(n,nc)	1.4+7		IRK	Expt	Conf	\$2Aantwerp	118	Sep 82	Koch + (+ETH) N3A BREAK - UP	

6 Carbon 13

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Elastic	1.0+7	1.8+7	TNL	Expt	Prog	DOE - NDC - 27	147	Apr 82	Gould.TBP NSE	
Diff Elastic	1.0+7	1.8+7	TNL	Expt	Jour	NSE 80 3	388	Mar 82	Dave + 5 ES.GRPHS,TBL,OPT.MDL.FIT	+
	1.0+7	1.8+7			Data	EXFOR12716.002		Feb 82	155 PTS. ANG.DISTR. 5 ES.	
Diff Elastic	7.6+6	1.1+7	OHO	Expt	Prog	DOE - NDC - 27	130	Apr 82	Resler + 11 ANGLES.TBC	
Diff Elastic	4.6+6	8.3+6	OHO	Expt	Abst	BAP 27 5	628	May 82	Resler + NDG.14 E'S,9 ANG.	
Diff Inelast	1.0+7		TNL	Expt	Jour	NSE 80 3	388	Mar 82	Dave + 2 LVLS,GRPH,TBL INT.LEG.COEF.	+
	1.0+7				Data	EXFOR12716.004		Feb 82	62 PTS. ANG.DISTR. 2 GAMS.	
	1.0+7				Data	EXFOR12716.005		Feb 82	2 PTS. SIG FOR 2 GAMS.	
Diff Inelast	4.6+6	8.3+6	OHO	Expt	Abst	BAP 27 5	628	May 82	Resler + NDG.14 E'S,9 ANG.	

7 Nitrogen 14

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
(n,y)	File		MCM	Expt	Jour	NIM 188	243		81 Islam + REL.AL - 27,CL - 35.	+
	File				Data	EXFOR12718.003		Jan 82	1 PT. SIGMA. CL - 35 STD.	
	File				Data	EXFOR12718.002		Jan 82	1 PT. SIGMA. AL - 27 STD.	
(n,a)	1.5+7		Al	Expt	Prog	DOE - NDC - 27	144	Apr 82	Kneff + NDG.TBC	

8 Oxygen 16

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Diff Elastic	2.3+7		ALA	Expt	Abst	BAP 27 4	542	Apr 82	Fielding + (GYA3),ANGDIST.CFD OPT.MDL.	
Polarization	2.3+7		ALA	Expt	Abst	BAP 27 4	542	Apr 82	Fielding + (GYA3),ANGDIST.CFD OPT.MDL.	
(n,a)	None		Al	Expt	Conf	#0BNL	289	Jul 80	Kneff + CS MEAS TO BE ANALYZED,NDG.	
(y,n)	2.4+7	1.3+8	SAC	Expt	Jour	NP/A 378 2	317	Apr 81	Carlos + PARTIAL XSECT,1,2 NEUTRONS E	

8 Oxygen 17

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Elastic	7.6-2		SAC	Expt	Jour	NP/A 365 1	103	Jul 81	Malinowski + SPIN DEPENDENT SCT LENGTH	
Polarization	7.6-2		SAC	Expt	Jour	NP/A 365 1	103	Jul 81	Malinowski + SPIN DEPENDENT SCT LENGTH	+
	7.6-2				Data	EXFOR21769.002		Mar 82	2PTS.SPIN UP AND DOWN SCT LENGTH	

8 Oxygen 18

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Diff Elastic	6.0+6	6.4+6	OHO	Expt	Abst	BAP 27 5	628	May 82	Koehler + STRUCTURE,NDG,5 E'S	
Diff Inelast	6.0+6	6.4+6	OHO	Expt	Abst	BAP 27 5	628	May 82	Koehler + STRUCTURE,NDG,5 E'S	

9 Fluorine 19

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data	
	Min	Max			Ref	Vol	Page			Date
Evaluation	1.0+5	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
Total	1.0+5	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
Elastic	1.0+5	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
Tot Inelastic	Thresh	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
(n,y)	1.0+5	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
(n,2n)	Thresh	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
(n,p)	Thresh	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	
(n,np)	Thresh	2.0+7	JAERI	Eval	Rept	JAERI - M - 7423		Sep 77	Sugi + FOR JENDL - 2,ENG ORNL - TM - 4605	

98 Californium 252

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Frag Spectra	Spont		EDG Expt	Conf	79Juelich 2 223	May 79	Cumpstey + E-DE, PROP C, HE+T DISTR	+	
					Prog NEANDC(E)212 8	Mar 80	- + HE6 EMISSION, ANG DISTR		
					Prog NEANDC(E)202 8	Apr 79	- + TERN FISS, H+HE SPECTS		
					Prog NEANDC(E)192 8	Jun 77	- + P124.EN+ANG DIST OF FRAGS		
Frag Spectra	Spont		GRE Expt	Prog	EXFOR21699.	Dec 80	2PTS.AKE.		
					NEANDC(E)212 4	80	Mariolopoulos + P32, ABSTR, NDG.		
					CEA - N - 2115	80	- + EVEN - ODO EFFECT, ABST		
					Abst 79Juelich § F30	May 79	- + AVG KE VS CHARGE, NDG		
Frag Spectra	Spont		AEP Expt	Jour	CNP 4 41	Feb 82	Bao + SOLIDST - DET.MASS YLD VS KE, GRPH		
Frag Charge	Spont		GRE ExTh	Jour	NP/A 361 1 213	May 81	Mariolopoulos + FISSION DYNAMICS STUDY		
			Expt	Abst	79Juelich § F30	May 79	- + AVG KE VS CHARGE, NDG		
Frag Charge	Spont		ANK Theo	Jour	PR/C 25 1 365	Jan 82	Kildir + GRPH CFD EXPT		
Lvl Density	0.0+0	+6	TMO Eval	Conf	INDC(NDS) - 129	Sep 81	Maslov + P329.LVL DENS PAR, NUCL - T, FIG,		

98 Californium 254

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
(n,γ)	Pile		LRL Expt	Jour	JIN 43 2239	Nov 81	Lougheed + SIG=4.5+ - 1.0 B.	+	
	Pile		Data	EXFOR12723.003	May 82	1 PT. SIGMA. REL TO CO.			

99 Einsteinium 256

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
(n,γ)	Pile		LRL Expt	Jour	JIN 43 2239	Nov 81	Lougheed + SIG=55+ - 10 B.	+	
	Pile		Data	EXFOR12723.002	May 82	1 PT. SIGMA. REL TO CO.			

Many

Quantity	Energy (ev)		Lab	Type	Documentation		Date	Author, Comments	Data
	Min	Max			Ref	Vol Page			
Evaluation	None		AEP Eval	Conf	82Antwerp 193	Sep 82	De Lin + (RES) FOR CENDL.		
Evaluation	1.0-5	2.0+7	JA E Eval	Conf	82Antwerp 45	Sep 82	Kikuchi + JENDL - 2 BENCHMARK TESTS.		
Evaluation	Maxwl		LON Eval	Conf	82Antwerp 224	Sep 82	Jefferies + (+NPL)		
Total	1.4+7		TRM Revw	Conf	INDC(IND) - 30	Aug 81	Gupta. TH MDLS.GRPH SIG(A) CFD EXPTS		
Elastic	1.4+7		TRM Revw	Conf	INDC(IND) - 30	Aug 81	Gupta. TH MDLS.GRPH SIG(A) CFD EXPTS		
Diff Inelast	1.5+7		AEP Theo	Conf	82Antwerp 181	Sep 82	Shunuan + EXCITON MDL CALC, 34 ELEMETS		
Diff Inelast	2.0+6	4.5+6	SWR Theo	Conf	82Antwerp 153	Sep 82	Ramstrom. CALC FROM LVL WIDTH FL - C.		
Thermal Scat	None		JUL Comp Rept	JUEL - 1755	Dec 81	Koester + SCAT LENGTHS			
Nonelastic	1.4+7		TRM Revw	Conf	INDC(IND) - 30	Aug 81	Gupta. TH MDLS.GRPH SIG(A) CFD EXPTS		
(n,γ)	2.5-3		GHT Expt	Conf	82Antwerp 115	Sep 82	Decorte + (+KFI) COMPILATION, 70 NUCL.		
(n,γ)	Maxwl		LON Expt	Conf	82Antwerp 224	Sep 82	Jefferies + (+NPL)		
(n,γ)	Maxwl		LON Eval	Conf	82Antwerp 224	Sep 82	Jefferies + (+NPL)		
(n,2n)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEMATICS, GRPH		
(n,p)	1.4+7	1.5+7	CCP Theo	Jour	AE 47 200	Sep 79	Levkovskii. SIG Z - N SYSTEMATICS, GRPH		
			Jour	SJA 47 762	Mar 80	ENGLISH OF AE 47 200			
(n,p)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEMATICS, GRPH		
(n,p)	1.4+7		KYU Theo	Jour	NST 18 563	Aug 81	Kumabe. PREEQ MDL ANAL. SYSTEMATICS		
(n,np)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEM, GRPH N,D+N,NP		
(n,d)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEM, GRPH N,D+N,NP		
(n,t)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEMATICS, GRPH SIG(Z)		
(n,He3)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEM, GRPH REL (N,XA)		
(n,α)	1.4+7	1.5+7	CCP Theo	Jour	AE 47 200	Sep 79	Levkovskii. SIG Z - N SYSTEMATICS, NDG		
			Jour	SJA 47 762	Mar 80	ENGLISH OF AE 47 200			
(n,α)	1.5+7	2.3+7	JUL Revw	Conf	80Kiev 1 215	Sep 80	Qaim + (N-Z)IA SYSTEMATICS, GRPH		
Fission	Thrs	1.1+7	KYU Eval	Prog	NEANDC - J75U 42	Aug 81	Ohsawa + DBL - HUMP BARR CAL FOR 28 NUC		
Fiss Yield	Maxwl		ILL Expt	Abst	79Juelich § F33	May 79	Asghar + GRPH MASS - DIST. SHELL EFFECTS		
Reson Params	None		AEP Theo	Conf	82Antwerp 182	Sep 82	Zhixiang. NR OF DEGR FREEDOM WN - DIST		
Reson Params	None		AEP Eval	Conf	82Antwerp 193	Sep 82	De Lin + EVL FOR CENDL.		
Reson Params	None		MIF Theo	Conf	82Antwerp 185	Sep 82	Bondarenko + FIT OF WG. (+DUB)		
Reson Params	None		PAR Theo	Conf	82Antwerp 144	Sep 82	Bohigas + GAUSS ORTH ENSEMBLE TESTED.		
Lvl Density	0.0+0	+6	TMO Eval	Conf	INDC(NDS) - 129	Sep 81	Maslov + P329.LVL DENS PAR, VS A, GRPH		
			Conf	INDC(NDS) - 129	Sep 81	Antsipov + P343.SPIN, PARTY DEPEND, FIG			

Fprod

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
Total	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT FF,235U,239PU	
Elastic	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT F,235U,239PU	
Tot Inelastic Absorption	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT FF,235U,239PU	
			CCP	Theo Jour	AE	50 3		Jan 81 Galanin. EFF SIG FROM U,PU FIS,TBLS	
				Jour	SJA	50 1		Jul 81 ENGLISH OF AE 50,3	
(n, γ)	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT FF,235U,239PU	
Nonelastic γ	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT FF,235U,239PU	
(n, $2n$)	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+10 PROMPT FF,235U,239PU	
(n,xn) x>2	1.0-5	2.0+7	LAS	Theo Rept	LA-	9168		Feb 82 Foster+N3N,10 PROMPT FF,235U,239PU	

1 D Heavy water

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
Total	2.5-4	9.7-2	KTO	Expt Jour	NST	18 9 739		Sep 81 Utsuro+TOF FOR HEAVY ICE AT 2 TEMPS	+
				Data	EXFOR	21751.		Mar 82 60PTS.SIGMA AT 15K AND 77K	
Total	3.0-5	1.0-2	KTO	Expt Jour	NST	18 739		Sep 81 Utsuro+ HEAVY ICE,77K,15K,TOF METHO	

3 Li Compounds

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
Thermal Scat	5.2-2		AEP	Expt Jour	CP	2 94		Jan 82 ENGLISH OF ASI 29,1462	

14 Si Oxide

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
Inelastic γ	1.4+7		BIA	Expt Conf	82Antwerp	62		Sep 82 Cox+ CONCRETE. 20-90 DEGR ANGDIS	

92 U Oxide

Quantity	Energy (ev)		Lab	Type	Documentation			Author, Comments	Data
	Min	Max			Ref	Vol	Page		
Total	None		TUD	Expt Conf	82Antwerp	122		Sep 82 Meister+ (+DUB) UO3,VF6,DOPPLER BR.	