

# 11-Na-23 (n, $\gamma$ ) 11-Na-24

Abundance (%)	=	100			
Q	=	6.95949 MeV	$E_{thr}$	=	0.0
$T_{1/2}$	=	14.9590 h			
$E_{\gamma}$	=	1368.633 keV	$I_{\gamma}$	=	100.0
$E_{\gamma}$	=	2754.028 keV	$I_{\gamma}$	=	99.944 $\pm$ 0.004
					$\beta^{-}$
					$\beta^{-}$

IRDF-90	- eval. - Apr 1990 Y. Hanrong.
D-99 (JENDL/D-99)	- eval. - Aug 1996 S. Iwasaki.
ENDF/B-VI	- eval. - Dec 1977 D. Larson.
JENDL-3.2	- eval. - Mar 1987 H. Yamakoshi.
JEF-2	- eval. - Mar 1987 H. Yamakoshi.
BROND-2	- eval. - 1987 M. Nikolaev, V. Koshcheev et al.
CENDL-2	- eval. - Apr 1983 Z. Zhi-Zheng.

Tabl. 1

U-235							
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	JEF-2	BROND-2	CENDL-2
10%	1.15E-01	1.43E-01	1.17E-01	1.43E-01	1.43E-01	1.15E-01	1.43E-01
50%	8.00E-01	9.20E-01	8.43E-01	9.23E-01	9.21E-01	8.70E-01	1.03
90%	3.20	3.60	3.30	3.63	3.61	3.32	3.40
ACS	<b>2.78E-04</b>	<b>2.30E-04</b>	<b>2.82E-04</b>	<b>2.30E-04</b>	<b>2.30E-04</b>	<b>2.77E-04</b>	<b>2.45E-04</b>

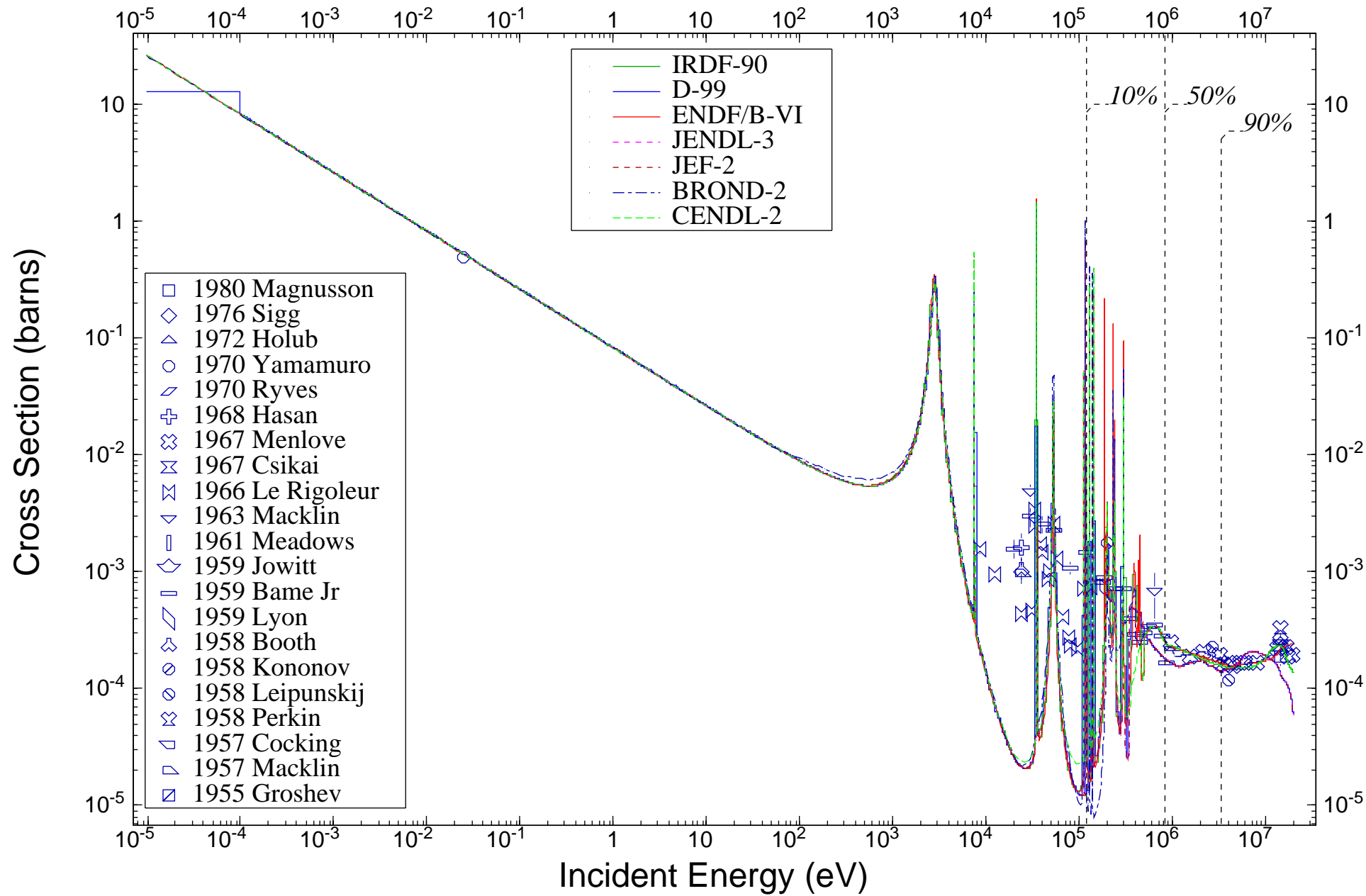
Tabl. 2

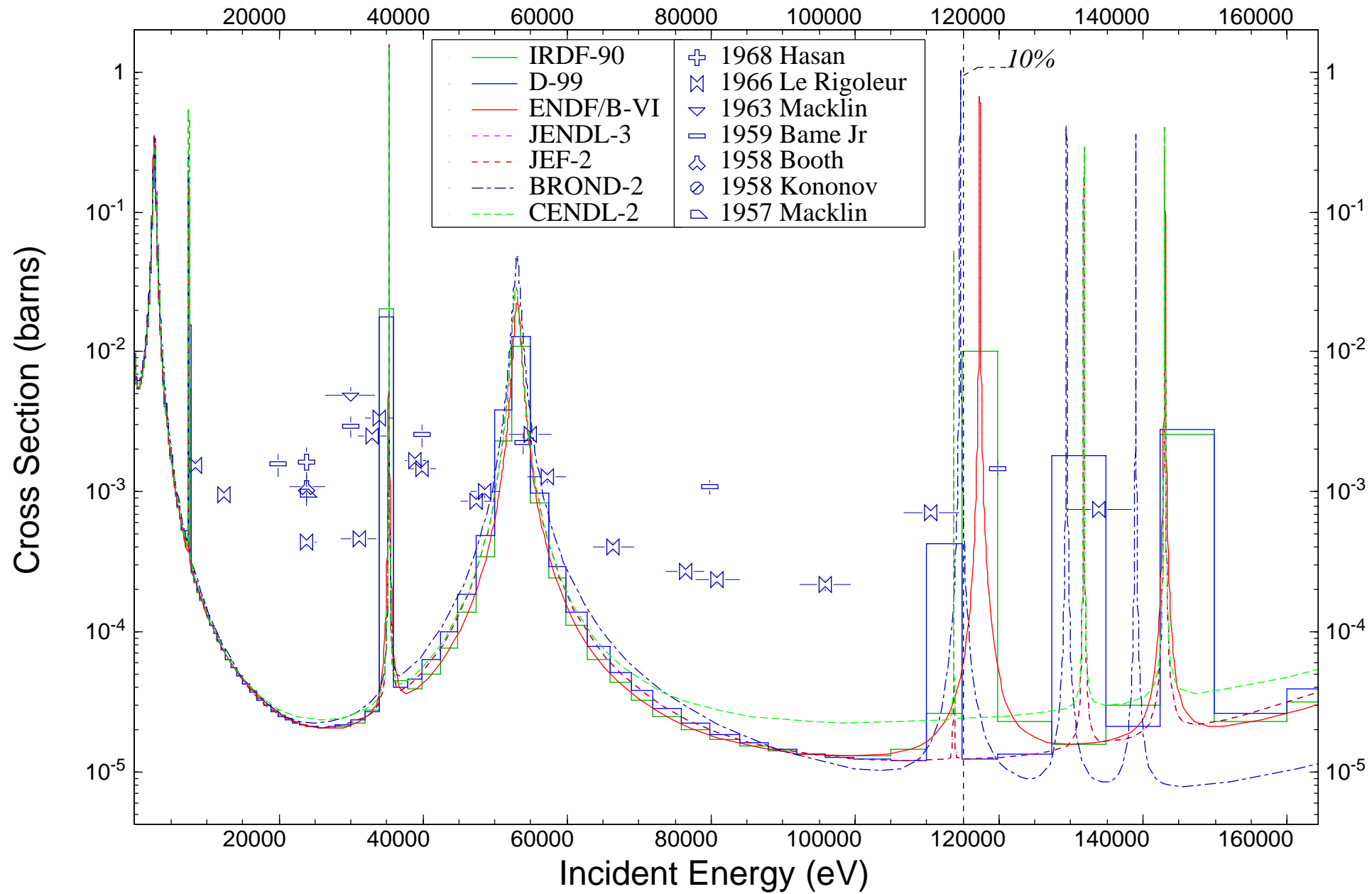
Cf-252							
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	JEF-2	BROND-2	CENDL-2
10%	1.43E-01	1.43E-01	1.43E-01	1.43E-01	1.43E-01	1.15E-01	1.81E-01
50%	9.20E-01	1.00	9.46E-01	1.06	1.06	9.85E-01	1.12
90%	3.50	4.00	3.59	4.01	4.00	3.60	3.70
ACS	<b>2.68E-04</b>	<b>2.23E-04</b>	<b>2.71E-04</b>	<b>2.23E-04</b>	<b>2.23E-04</b>	<b>2.66E-04</b>	<b>2.37E-04</b>

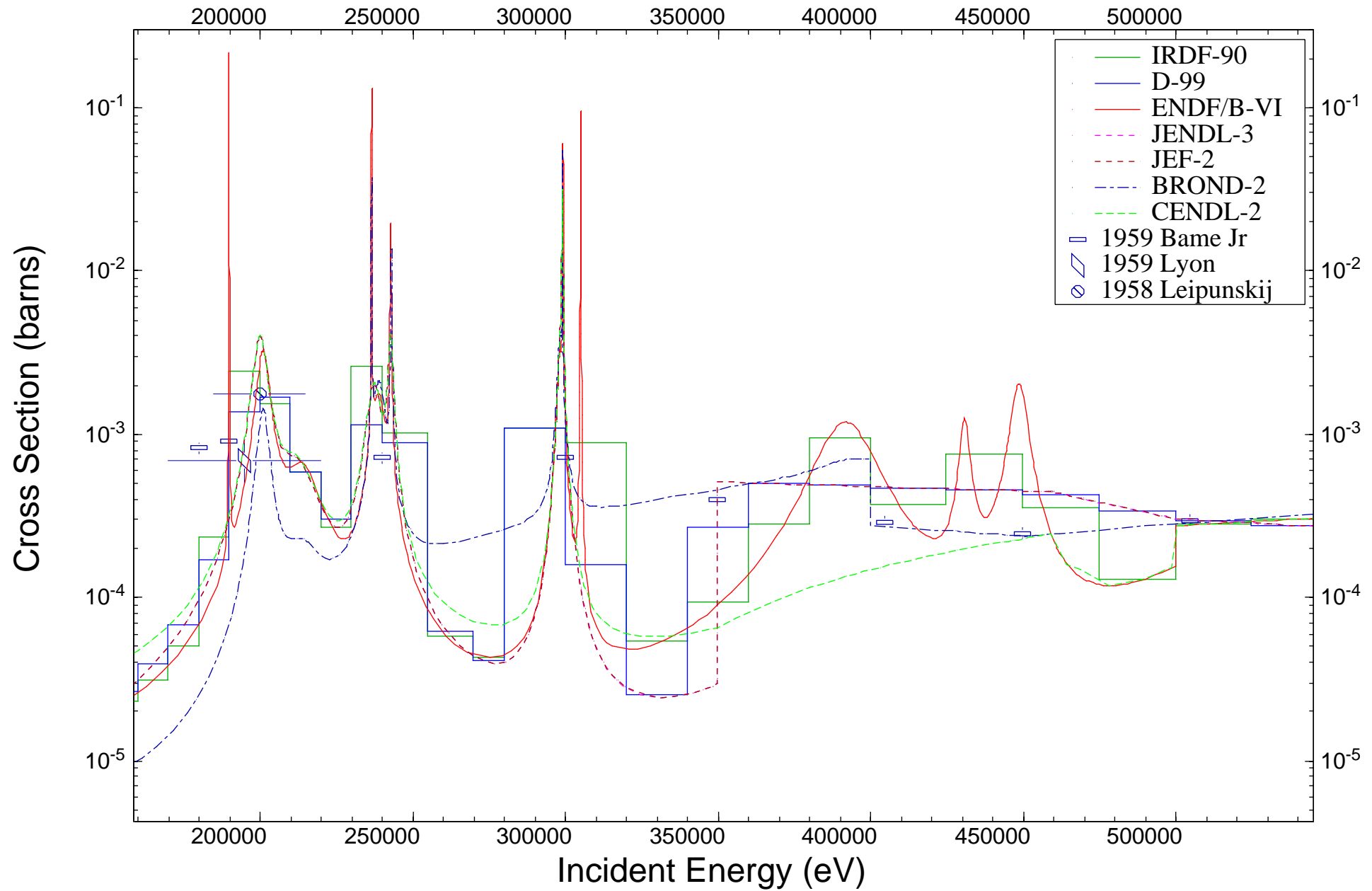
Tabl. 3

2.5-02 2.5-02	1	1USARPI	J,NSE,41,445	7009 N.YAMAMURO,	10150003
1.5+07 1.5+07	1	1USAARK	T,SIGG	76 R.A.SIGG	10776028
2.5-02 2.5-02	1	1USAANL	J,NSE,9,132	6102 J.W.MEADOWS,	11028007
3.0+04 6.5+05	2	1USAORL	J,PR,129,2695	63 R.L.MACKLIN,	11331003
2.4+04 2.4+04	1	1USAORL	J,PR,107,504	57 R.L.MACKLIN,	11399002
2.0+04 9.9+05	19	1USALAS	J,PR,113,256	59 S.J.BAME JR,	11405002
1.9+05 2.0+05	1	1USAORL	J,PR,114,1619	59 W.S.LYON,	11407002
9.7+05 1.9+07	17	1USALOK	J,PR,163,1299	67 H.O.MENLOVE,	11420002
2.4+04 2.4+04	1	1USALRL	J,PR,112,226	58 R.BOOTH,	11429002
5.0+05 6.0+08	1	1USAORL	R,ORNL-CF-53-8-22	5308 H.REESE JR,	11448002
2.5-02 2.5-02	1	2UK NPL	J,JNE,24,419	7011 T.B.RYVES,	20790002
1.5+07 1.5+07	1	2SWDLND	J,PS,21,(1),21	8001 G.MAGNUSSON,	21004006
2.5-02 2.5-02	1	2UK HAR	J,JNE,4,33	57 S.J.COCKING,	21183002
8.5+03 9.6+04	7	2FR CAD	J,JNE,20,67	6601 C.LE RIGOLEUR,	21192003
1.2+04 1.3+05	11	2FR CAD	J,JNE,20,67	6601 C.LE RIGOLEUR,	21192005
1.4+07 1.5+07	1	2UK ALD	J,PPS,72,505	58 J.L.PERKIN,	21438002
2.5-02 2.5-02	1	2UK HAR	J,PNE,3,242	59 D.JOWITT,	21470004
1.5+07 1.5+07	1	3HUNDEB	J,NP/A,95,229	6703 J.CSIKAL,	30067002
2.4+04 2.4+04	1	3INDMUA	J,NC/B,58,402	6812 S.S.HASAN,	30077002
1.4+07 1.4+07	1	3YUGRBZ	R,LNS-4-72	72 E.HOLUB,	30145002
2.0+05 2.0+05	1	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244065
2.7+06 4.0+06	2	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244085

2.4+04 2.4+04	1	4CCPFEI	J,AE,5,564	58 V.N.KONONOV,	40421002
2.5-02 2.5-02	1	4CCPKUR	C,55GENEVA,2,39(P/651)	55 L.V.GROSHEV,	40589003

$^{23}\text{Na}(n,\gamma)^{24}\text{Na}$ 

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