93-Np-237 (n, f)

$T_{1/2}$ = $2.144 \cdot 10^6$ y 7

IRDF-90	- eval. - Apr 1978 F. Mann, J. Smith, W. Stein et al.
D-99 (JENDL/D-99)	- eval. - Apr 1996 K. Kobayashi.
ENDF/B-VI	- eval. - Apr 1990 P. Young, E. Arthur, F. Mann.
JENDL-3.2	- eval. - Nov 1987 Y.Uenohara, Y. Kanda.
JEF-2	- eval. - Jun 1982 JEF SCG .
CENDL-2	- eval. - May 1990 G. Tang, J. Fan, S. Bao, W. Cao.

Tabl. 1

U-235						
	IRDF-90	**D-99**	**ENDF/B-VI**	**JENDL-3**	**JEF-2**	**CENDL-2**
10%	8.00E-01	8.00E-01	8.00E-01	8.25E-01	8.30E-01	8.25E-01
50%	1.90	1.90	1.90	1.95	1.94	1.90
90%	4.40	4.40	4.40	4.43	4.40	4.40
ACS	**1.32**	**1.30**	**1.29**	**1.31**	**1.28**	**1.28**

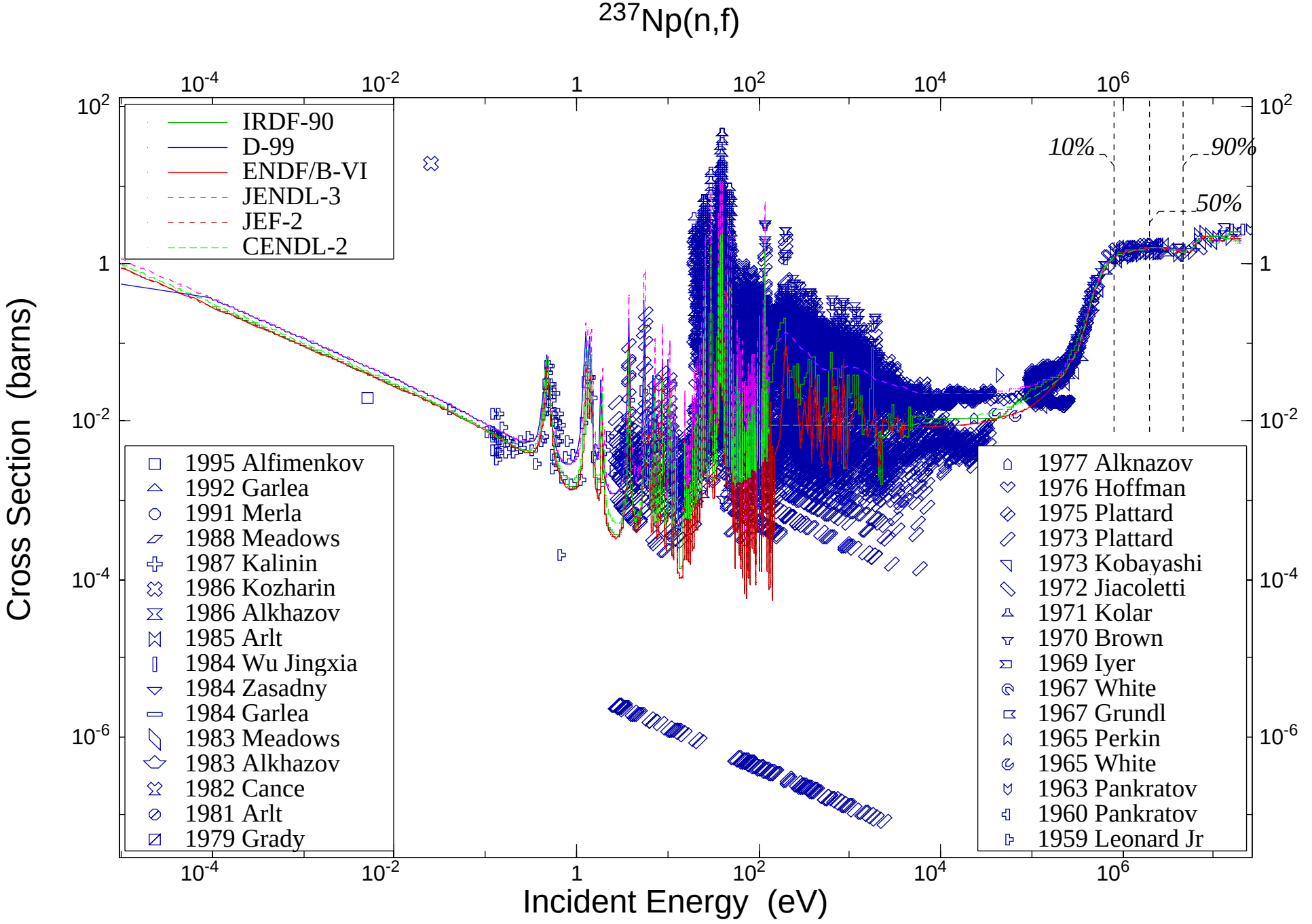
Tabl. 2

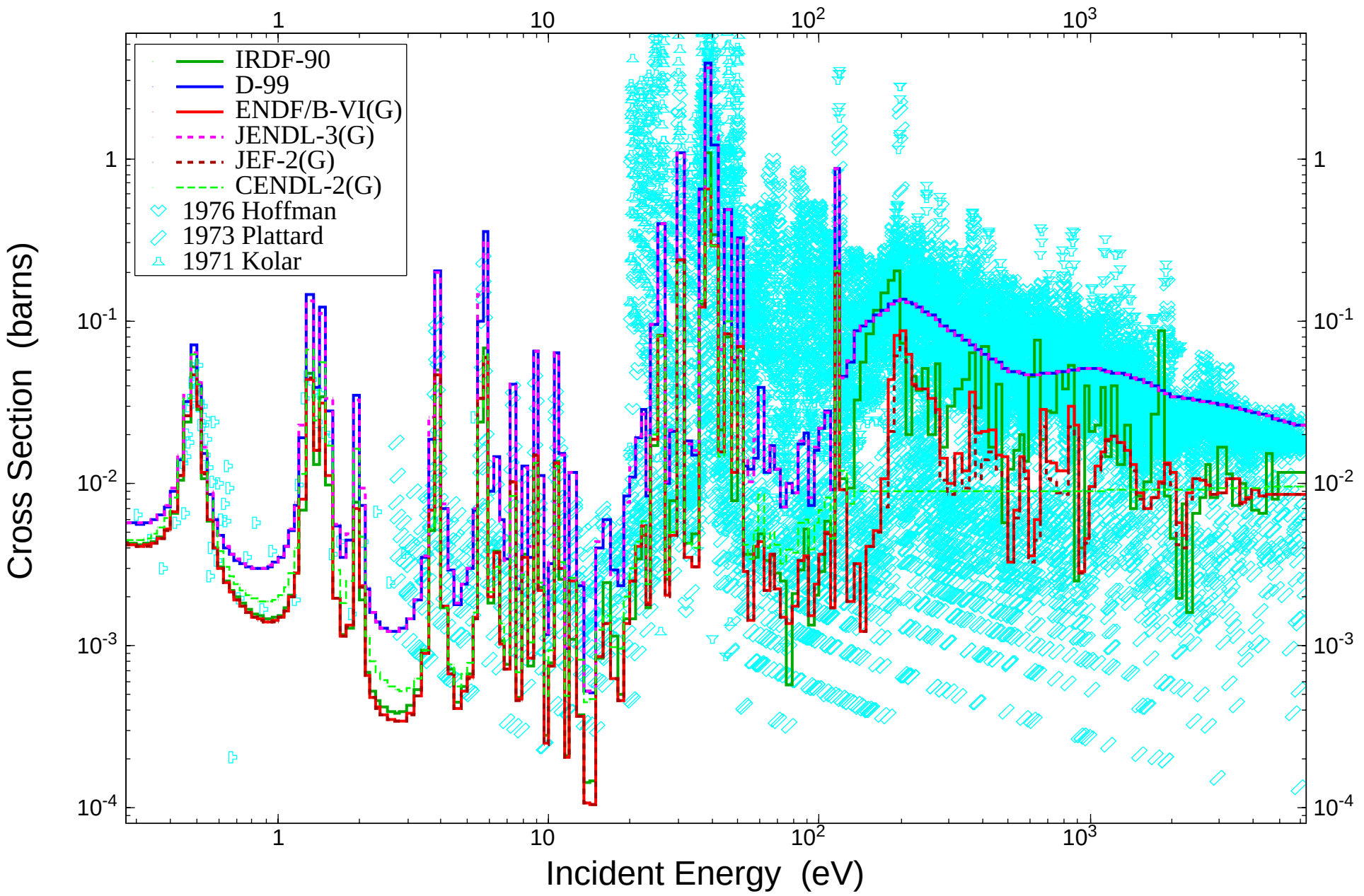
Cf-252						
	IRDF-90	**D-99**	**ENDF/B-VI**	**JENDL-3**	**JEF-2**	**CENDL-2**
10%	8.40E-01	8.40E-01	8.40E-01	8.50E-01	8.57E-01	8.51E-01
50%	2.00	2.00	2.00	2.00	2.00	2.00
90%	4.80	4.80	4.80	4.74	4.80	4.80
ACS	**1.35**	**1.33**	**1.32**	**1.34**	**1.31**	**1.31**

Tabl. 3

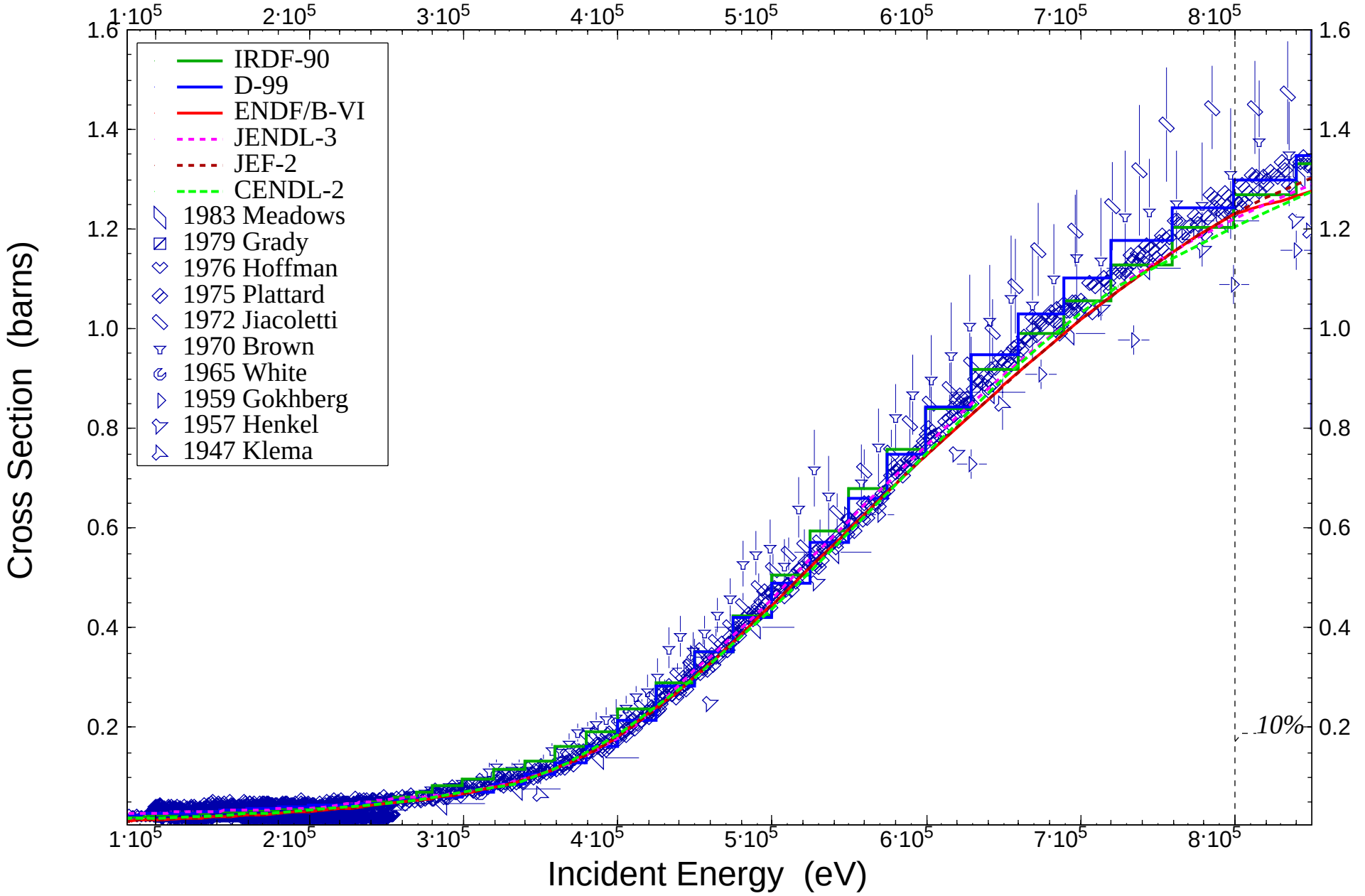
3.2+01 2.8+06	2496	1USALAS	J,NP/A,156,609,197011	7011 W.K.Brown,	10060002
2.0+05 7.7+06	102	1USALAS	J,NSE,48,412,7208	7208 R.J.Jiacoletti,	10182002
2.0+01 2.5+05	19300	1USALAS	J,BAP,21,655(JE3),7604	7604 M.M.Hoffman,	10366002
1.1+06 8.1+06	17	1USALAS	J,NSE,30,39,6710	6710 J.A.Grundl	10417003
7.7+05 9.6+05	2	1USAMHG	C,79KNOX,,976,7910	7910 D.J.Grady,	10947002
4.6+05 7.5+06	52	1USALAS	R,LA-2114,57	5701 R.L.Henkel	12321006
4.1-02 5.3+00	100	1USAHAN	J,BAP,4,31(K1),5901	5901 B.R.Leonard Jr,	12476002
1.6+06 7.4+06	47	1USAORL	J,PR,116,1575,59	5901 H.W.Schmitt,	12488002
9.1+05 7.4+06	74	1USAORL	J,PR,116,1575,59	5901 H.W.Schmitt,	12488003
2.5+05 3.0+06	16	1USALAS	J,PR,72,88,4707	4707 E.D.Klema	12492002
1.3+05 9.4+06	66	1USAANL	J,NSE,85,271,8311	8311 J.W.Meadows	12852002
1.5+07 1.5+07	1	1USAMHG	J,ANS,47,425,8411	8411 K.R.Zasadny,	12910003
1.5+07 1.5+07	1	1USAANL	J,ANE,15,421,8808	8808 J.W.Meadows	13134008
2.0+01 5.2+01	1171	2ZZZGEL	J,ZP,248,355,7112	7112 W.Kolar,	20138002
3.5+06 4.9+06	7	2JPNKTO	W,KOBAYASHI,73	7301 K.Kobayashi,	20300002
1.0+05 2.1+06	1592	2FRSAC	C,75KIEV,,,7506	7506 S.Plattard,	20423002
2.7+00 3.5+04	3923	2FRSAC	T,PLATTARD,7311	7311 S.Plattard	20448002
2.4+04 2.4+04	1	2UKALD	J,JNE/AB,19,(6),423,65	6506 J.L.Perkin,	20584006
1.0+06 1.4+07	4	2UKALD	J,JNE,21,671,6708	6708 P.H.White,	21195006
4.0+04 5.1+05	5	2UKALD	C,65SALZBURG,1,219,650	6503 P.H.White,	21463005
2.5+06 2.5+06	1	2FRBRC	C,82ANTWER,51,8209	8209 M.Cance,	21821006
2.5+06 2.5+06	1	2FRBRC	C,82ANTWER,51,8209	8209 M.Cance,	21821007
4.9+06 1.9+07	3	2GERDRE	C,91JUELIC,,510,9105	9105 K.Merla,	22304004
1.5+07 1.5+07	1	2GERDRE	C,91JUELIC,,510,9105	9105 K.Merla,	22304008
1.4+07 1.4+07	1	3INDTRM	C,69ROORKEE,2,289,6912	6912 R.H.Iyer,	30035005
1.5+07 1.5+07	1	3DDRTUD	J,KE,24,48,8102	8102 R.Arlt,	30475004
8.7+06 8.7+06	1	3DDRTUD	J,IP,21,344,85	8501 R.Arlt,	30558003

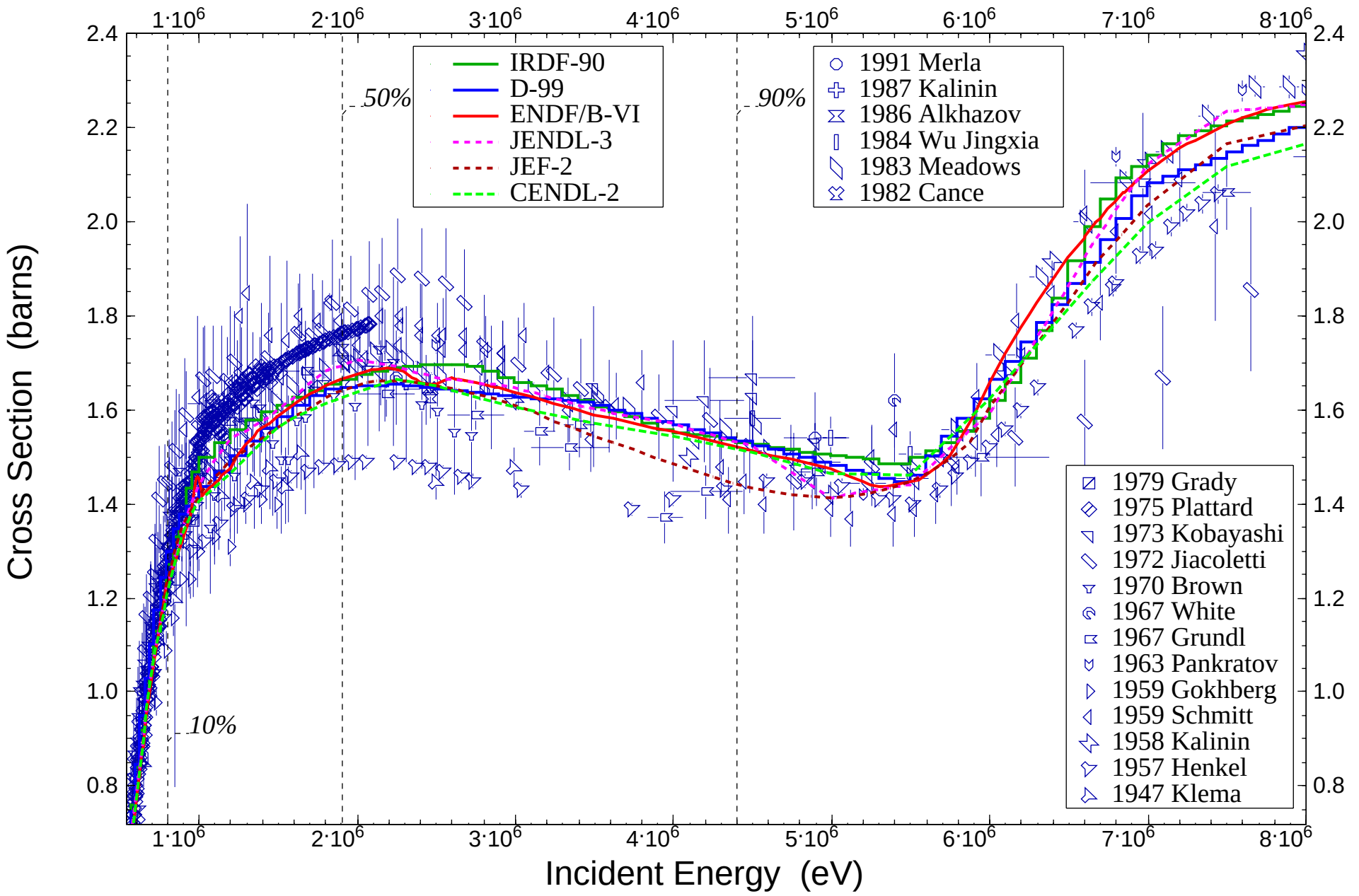
4.0+06 5.5+06	4	3CPRAEP	J,CNP,6,369,8411	8411 Wu Jingxia,	30717002
1.5+07 1.5+07	1	3RUMPIT	J,RRP,29,421,84	8401 I.Garlea,	30813009
1.5+07 1.5+07	1	3RUMBUC	J,RRP,37,(1),19,92	9201 I.Garlea,	31459024
1.5+07 1.5+07	1	4CCPCCP	J,AE,4,(2),190,5802	5802 A.N.Protopopov,	40390003
1.5+07 1.5+07	1	4CCPRI	C,77KIEV,3,155,7704	7704 I.D.Alknazov,	40552003
9.6+06 2.2+07	17	4CCPKUR	J,AE,9,399,60	6001 V.M.Pankratov,	40638003
2.5+06 2.6+07	29	4CCPKUR	J,AE,14,177,63	6301 V.M.Pankratov	40653004
1.2+04 1.5+06	25	4CCPKUR	J,DOK,128,(6),1157,59	5901 B.M.Gokhberg,	40714003
2.5+06 8.3+06	13	4CCPKUR	C,58GENEVA,16,136(2149	5809 S.P.Kalinin,	40741004
2.5-02 2.5-02	1	4CCPRI	J,AE,60,(6),419,8606	8606 V.V.Kozharin,	40901002
8.4+06 1.5+07	2	4CCPRI	C,83MOSKVA,2,201,83	8301 I.D.Alkhazov,	40911006
1.9+06 1.9+06	1	4CCPRI	J,YK,,(4),19,8612	8612 I.D.Alkhazov,	40927004
1.9+06 1.9+06	1	4CCPRI	J,YK,,(4),3,87	8701 V.A.Kalinin,	40976003
5.2-03 5.2-03	1	4ZZZDUB	J,YF,58,(5),799,9505	9505 V.P.Alfimenkov,	41174005

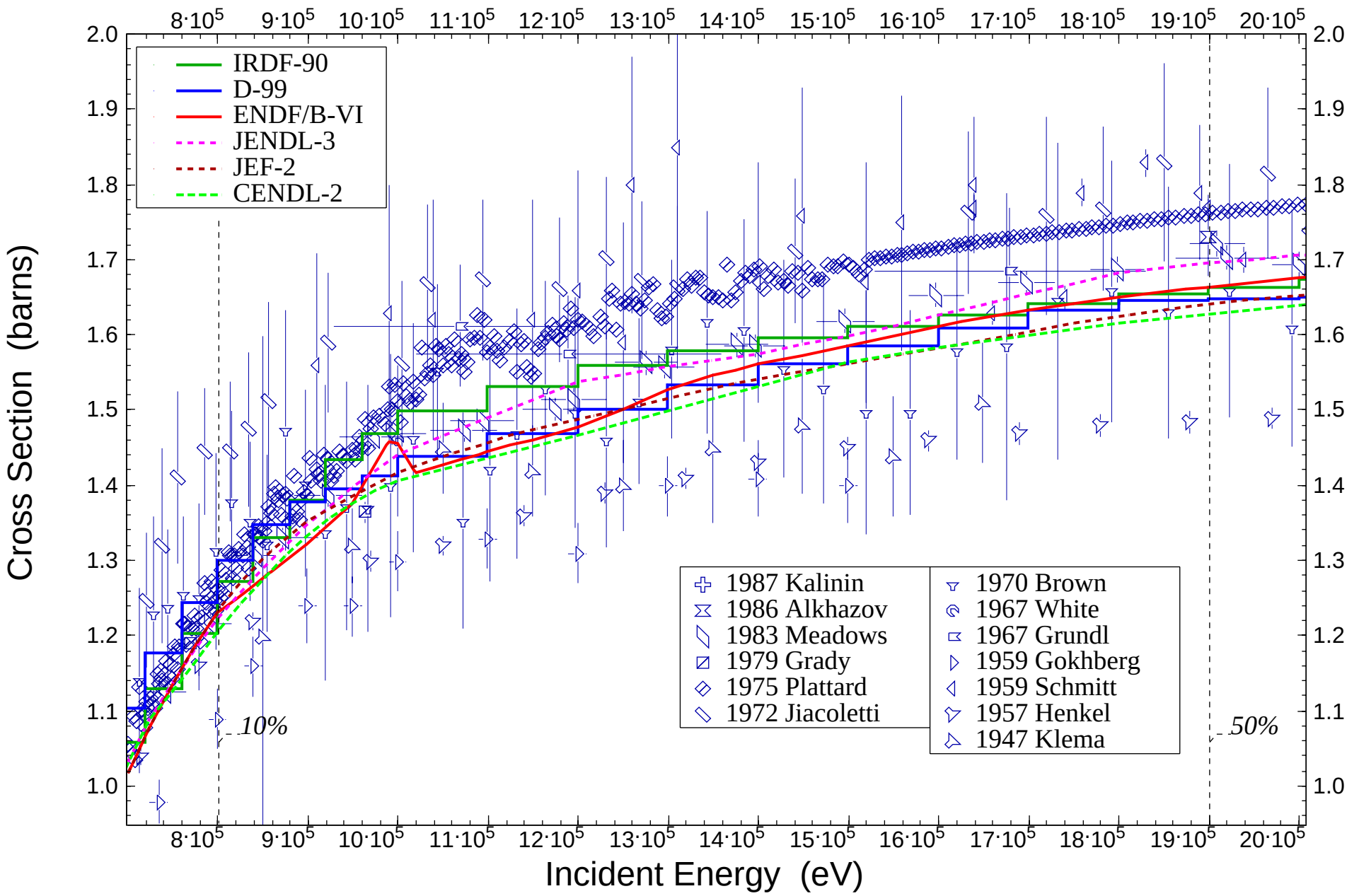

^{237}Np(n,f)
IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
10%
50%
90%
1995 Alfimenkov
1992 Garlea
1991 Merla
1988 Meadows
1987 Kalinin
1986 Kozharin
1986 Alkhazov
1985 Arlt
1984 Wu Jingxia
1984 Zasadny
1984 Garlea
1983 Meadows
1983 Alkhazov
1982 Cance
1981 Arlt
1979 Grady
1977 Alknazov
1976 Hoffman
1975 Plattard
1973 Plattard
1973 Kobayashi
1972 Jiacoletti
1971 Kolar
1970 Brown
1969 Iyer
1967 White
1967 Grundl
1965 Perkin
1965 White
1963 Pankratov
1960 Pankratov
1959 Leonard Jr
Cross Section (barns)
Incident Energy (eV)
10^{-4}
10^{-2}
1
10^{2}
10^{4}
10^{6}
10^{-6}

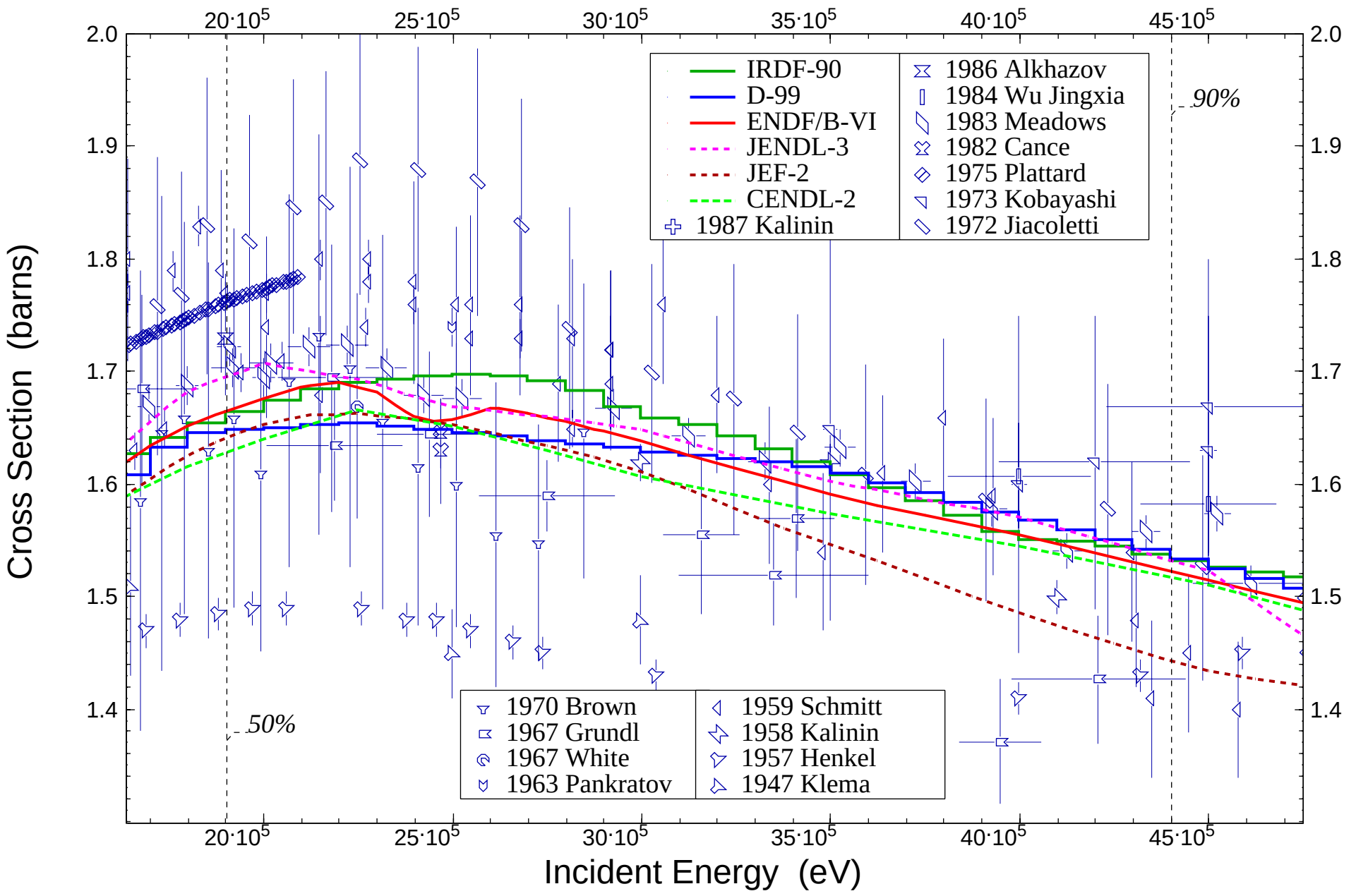

^{237}Np(n,f)
IRDF-90
D-99
ENDF/B-VI(G)
JENDL-3(G)
JEF-2(G)
CENDL-2(G)
1976 Hoffman
1973 Plattard
1971 Kolar
Cross Section (barns)
Incident Energy (eV)
1
10
10^2
10^3
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}

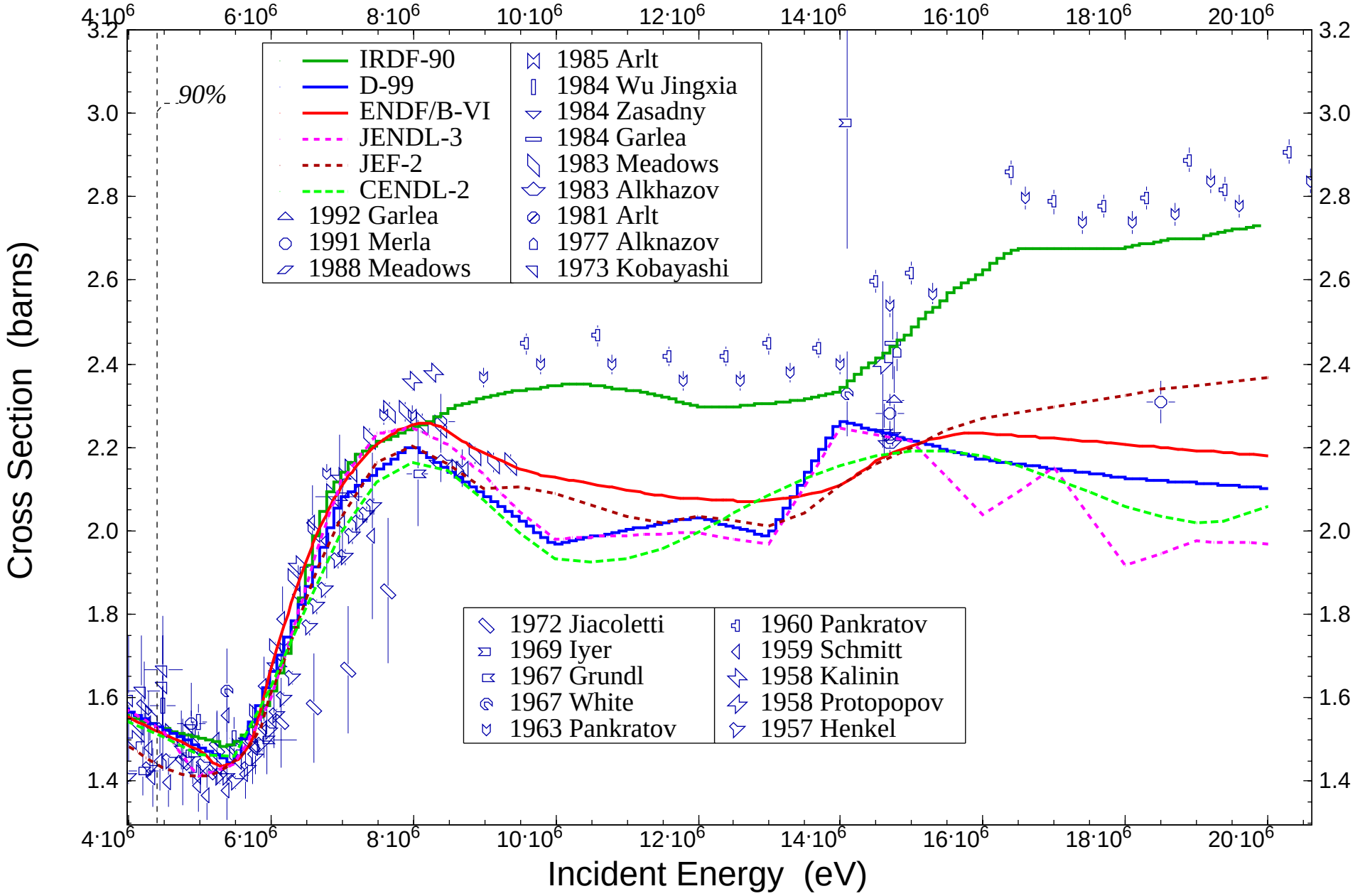
^{237}Np(n,f)


IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
1983 Meadows
1979 Grady
1976 Hoffman
1975 Plattard
1972 Jiacoletti
1970 Brown
1965 White
1959 Gokhberg
1957 Henkel
1947 Klema
10%
Cross Section (barns)
Incident Energy (eV)
1·10^5
2·10^5
3·10^5
4·10^5
5·10^5
6·10^5
7·10^5
8·10^5
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6


237Np(n,f)
Cross Section (barns)
Incident Energy (eV)
1·10^6
2·10^6
3·10^6
4·10^6
5·10^6
6·10^6
7·10^6
8·10^6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
10%
50%
90%
IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
1991 Merla
1987 Kalinin
1986 Alkhazov
1984 Wu Jingxia
1983 Meadows
1982 Cance
1979 Grady
1975 Plattard
1973 Kobayashi
1972 Jiacoletti
1970 Brown
1967 White
1967 Grundl
1963 Pankratov
1959 Gokhberg
1959 Schmitt
1958 Kalinin
1957 Henkel
1947 Klema


^{237}Np(n,f)
IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
1987 Kalinin
1986 Alkhazov
1983 Meadows
1979 Grady
1975 Plattard
1972 Jiacoletti
1970 Brown
1967 White
1967 Grundl
1959 Gokhberg
1959 Schmitt
1957 Henkel
1947 Klema
10%
50%
Cross Section (barns)
Incident Energy (eV)
8·10^5
9·10^5
10·10^5
11·10^5
12·10^5
13·10^5
14·10^5
15·10^5
16·10^5
17·10^5
18·10^5
19·10^5
20·10^5
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0


237Np(n,f)
Cross Section (barns)
Incident Energy (eV)
20·10^5
25·10^5
30·10^5
35·10^5
40·10^5
45·10^5
2.0
1.9
1.8
1.7
1.6
1.5
1.4
IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
1987 Kalinin
1986 Alkhazov
1984 Wu Jingxia
1983 Meadows
1982 Cance
1975 Plattard
1973 Kobayashi
1972 Jiacoletti
1970 Brown
1967 Grundl
1967 White
1963 Pankratov
1959 Schmitt
1958 Kalinin
1957 Henkel
1947 Klema
50%
90%


237Np(n,f)
Cross Section (barns)
Incident Energy (eV)
90%
IRDF-90
D-99
ENDF/B-VI
JENDL-3
JEF-2
CENDL-2
1992 Garlea
1991 Merla
1988 Meadows
1985 Arlt
1984 Wu Jingxia
1984 Zasadny
1984 Garlea
1983 Meadows
1983 Alkhazov
1981 Arlt
1977 Alknazov
1973 Kobayashi
1972 Jiacoletti
1969 Iyer
1967 Grundl
1967 White
1963 Pankratov
1960 Pankratov
1959 Schmitt
1958 Kalinin
1958 Protopopov
1957 Henkel