

28-Ni-58 (n, 2n) 28-Ni-57

Abundance (%) = 68.077 ± 0.009

Q = -12.21896 MeV

E_{th} = 12.43169 MeV

T_{1/2} = 35.60 h 6

E_γ = 127.164 ± 0.003 keV

I_γ = 16.67 ± 0.48

β⁺

E_γ = 1377.63 ± 0.03 keV

I_γ = 81.7 ± 2.4

β⁺

E_γ = 1919.52 ± 0.05 keV

I_γ = 12.26 ± 0.35

β⁺

IRDF-90

- eval. -Apr 1990 N. Larson, A. Vonach et al.

D-99 (JENDL/D-99)

- eval. - Nov 1996 S. Iwasaki.

ENDF/B-VI

- eval. - Oct 1989 N. Larson, C. Perey, D. Hetrick, C. Fu.

JENDL-3.2

- eval. - Mar 1987 S. Iijima.

JEF-2

- eval. - Jun 1989 JEF SCG.

BROND-2

- eval. - May 1985 A. Blokhin, A. Ignatyuk.

Tabl. 1

U-235						
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	JEF-2	BROND-2
10%	13.20	13.30	13.20	13.30	13.20	13.20
50%	14.60	14.60	14.60	14.60	14.60	14.40
90%	16.60	16.60	16.60	16.60	16.60	16.50
ACS	3.15E-06	3.05E-06	3.16E-06	3.03E-06	3.16E-06	2.82E-06

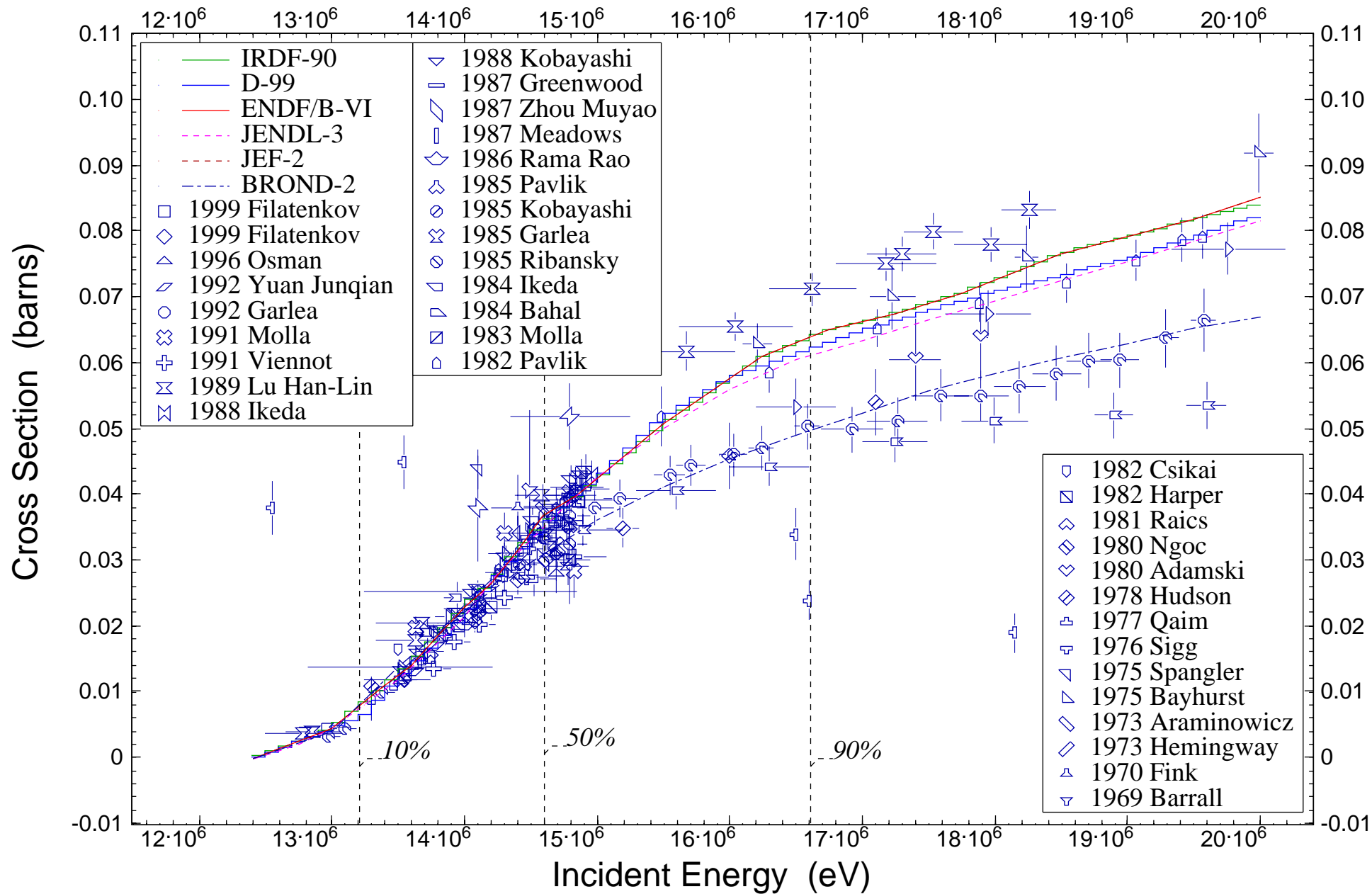
Tabl. 2

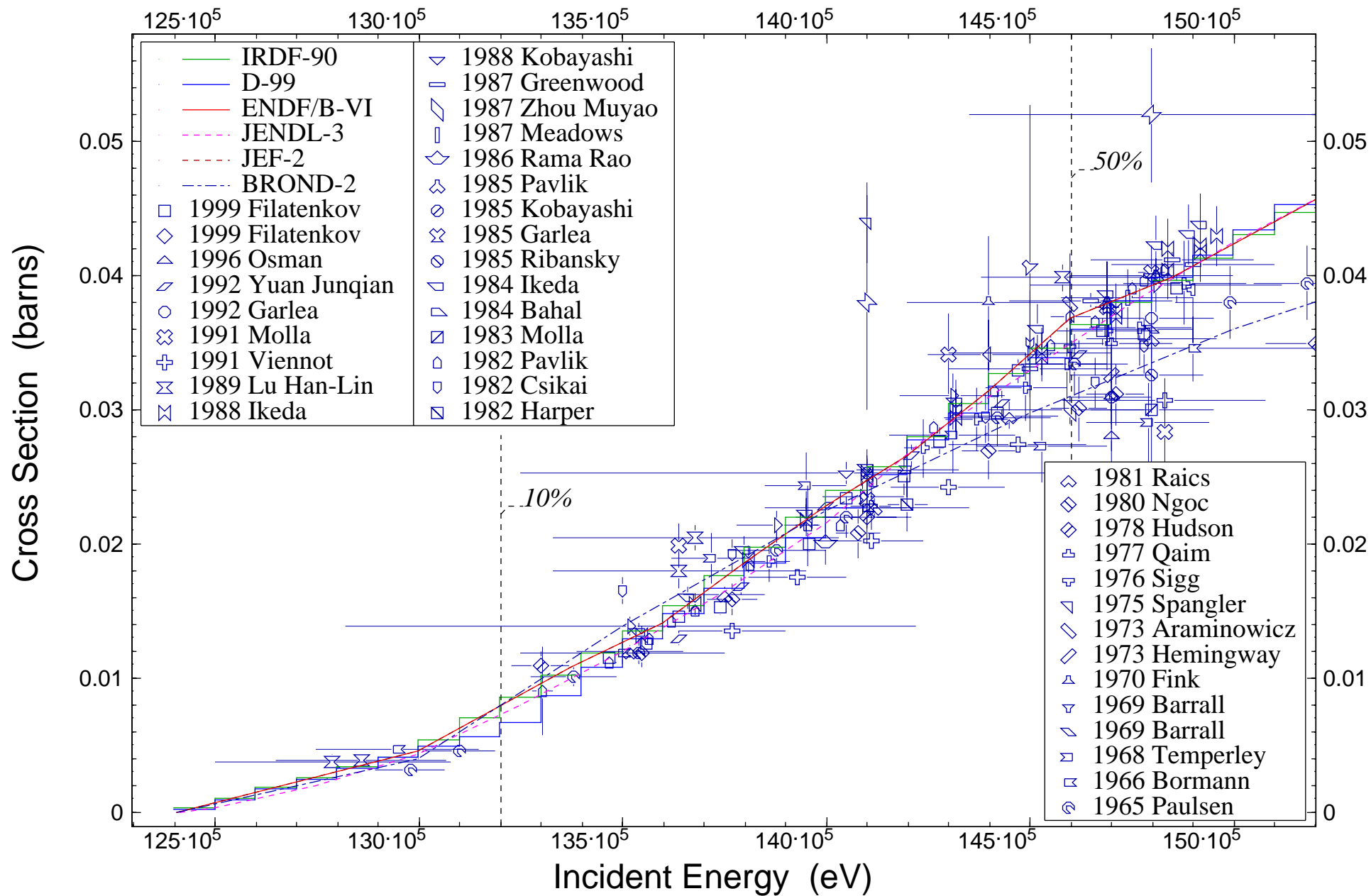
Cf-252						
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	JEF-2	BROND-2
10%	13.30	13.40	13.30	13.30	13.30	13.30
50%	14.70	14.80	14.70	14.80	14.70	14.60
90%	16.70	16.70	16.75	16.70	16.75	16.60
ACS	8.04E-06	7.81E-06	8.05E-06	7.76E-06	8.05E-06	7.12E-06

Tabl. 3

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022014
1.5+07	1.5+07	1	1USALRL 1USASTF	J,NP/A,138,387	6912 R.C.BARRALL,	10031009
1.4+07	1.4+07	1	1USAGIT	J,BAP,15,1372(EH6)	7007 R.W.FINK,	10484002
1.7+07	2.5+07	7	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536005
1.6+07	2.8+07	2	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536006
2.6+07	2.6+07	1	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536007
1.5+07	1.5+07	1	1USAARK	T,SIGG	76 R.A.SIGG	10776022
1.3+07	1.7+07	5	1USAAUB 1USAALS	J,ANE,5,589	78 C.G.HUDSON,	10836004
1.5+07	1.5+07	1	1USAORL	R,ORNL-3672	6501 J.E.STRAIN,	11263023
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267	53 E.B.PAUL,	11274033
1.4+07	1.4+07	1	1USAANL	J,PR,122,168	61 L.A.RAYBURN	11328012
1.5+07	1.5+07	1	1USAARK	J,PR,131,2649	6309 E.T.BRAMLITT,	11590018
1.4+07	2.0+07	9	1USALAS	J,PR,121,1438	6103 R.J.PRESTWOOD,	11645006
1.4+07	1.5+07	1	1CANCRC	P,EANDC(CAN)-16,1	6301 W.G.CROSS,	11696014
1.5+07	1.5+07	1	1USAARK	J,NP,15,326	6002 I.L.PREISS,	11740007
1.4+07	1.5+07	6	1USANDL	J,NSE,32,195	68 J.K.TEMPERLEY	11761003
1.4+07	1.4+07	1	1USAAUB	J,JP/G,8,153	8201 R.C.HARPER,	12730003
1.4+07	1.4+07	1	1USATEX	J,ANS,22,818	7511 R.SPANGLER,	12956004
1.5+07	1.5+07	1	1USAANL	J,ANE,14,489	8709 J.W.MEADOWS,	12969017
1.4+07	1.5+07	5	1USAANL	S,ASTM-STP-956,743	87 L.R.GREENWOOD	12977014
1.3+07	2.0+07	25	2ZZZGEL	J,NUK,7,117	6503 A.PAULSEN,	20386002

1.5+07	1.5+07	1	2UK DUR	J,JNE,27,241	7304 J.D.HEMINGWAY	20527002
1.5+07	1.5+07	1	2GERJUL	J,NP/A,283,269	7706 S.M.QAIM,	20721028
1.3+07	2.0+07	10	2GERHAM	P,EANDC(E)-66,42	6602 M.BORMANN,	20900003
1.3+07	2.1+07	8	2FR SAC	J,NP,47,(1),157	6307 J.M.F.JERONYMO,	20922009
1.3+07	2.0+07	11	2AUSIRK	J,JP/G,8,1283	82 A.PAVLIK,	21807004
1.3+07	1.5+07	18	2AUSIRK	J,JP/G,8,1283	82 A.PAVLIK,	21807005
1.5+07	1.5+07	1	2GERKIG	R,GKSS-84-E-	84 B.M.BAHAL,	21936028
1.4+07	1.5+07	11	2JPNJAE	W,IKEDA	8411 Y.IKEDA,	21945004
1.3+07	2.0+07	11	2AUSIRK	J,NSE,90,186	8506 A.PAVLIK,	21965002
1.3+07	1.5+07	18	2AUSIRK	J,NSE,90,186	8506 A.PAVLIK,	21965003
1.4+07	1.5+07	22	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089047
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093014
3.0+03	1.8+07	1	2JPNTOH	S,JAERI-M-90-025,277	9002 J.R.DUMAIS,	22238006
1.5+07	1.5+07	1	3HUNDEB	C,65ANTWERP,,537	6507 J.CSIKAI	30038006
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARAMINOWICZ,	30264014
1.4+07	1.8+07	4	3POLIBJ	J,ANE,7,(7),397	80 L.ADAMSKI,	30392002
1.4+07	1.8+07	2	3POLIBJ	J,ANE,7,(7),397	80 L.ADAMSKI,	30392002
1.4+07	1.5+07	6	3HUNELU	T,NGOC	80 P.N.NGOC,	30562016
1.5+07	1.5+07	1	3BANRAM	P,INDC(BAN)-002,1	8302 N.T.MOLLA,	30577004
1.4+07	1.5+07	5	3HUNKOS	J,AK,23,45	8106 P.RAICS,	30604002
1.3+07	1.8+07	13	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30637003
1.3+07	1.5+07	6	3HUNKOS	C,82ANTWER,,414	8209 J.CSIKAI	30640005
1.5+07	1.5+07	1	3CPRSST	J,CNP,9,34	8702 ZHOU MUYAO,	30755007
1.5+07	1.5+07	1	3RUMCIP	J,RRP,30,(8),673	85 I.GARLEA,	30804005
1.5+07	1.5+07	1	3CSRSLO	R,INDC(CSR)-7	8507 I.RIBANSKY,	30811002
1.4+07	1.4+07	1	3INDBHU	J,NIM/B,17,368	86 J.RAMA RAO,	30938002
1.4+07	1.5+07	6	3MORRAB	J,NSE,108,289	9107 M.VIENNOT,	30978015
1.4+07	1.5+07	5	3BANSAV	C,91JUELIC,,355	9105 N.I.MOLLA,	30985012
1.4+07	1.4+07	1	3AULCBR	J,AUJ,12,103	59 K.H.PURSER,	31038003
1.4+07	1.5+07	9	3AULCBR	J,NP,29,309	62 R.N.GLOVER,	31107012
1.5+07	1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459016
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464019
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464020
1.4+07	1.5+07	6	3CPRLNZ	J,PHE,16,(1),57	9201 YUAN JUNQIAN,	32592005
1.3+07	1.5+07	15	4RUSRI	R,INDC(CCP)-402	9701 A.A.FILATENKOV,	41240018

$^{58}\text{Ni}(n,2n)^{57}\text{Ni}$ 

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