

40-Zr-90 (n, 2n) 40-Zr-89

Abundance (%) = 51.45 ± 0.03

Q = -11.96994 MeV E_{thr} = 12.10424 MeV
 T_{1/2} = 78.41 h 12
 E_γ = 909.14 ± 0.07 keV I_γ = 99.871 ± 0.003 β⁺

T_{1/2} = 4.18 m
 E_γ = 587.79 ± 0.10 keV I_γ = 89.51 ± 0.17 IT
 E_γ = 1507.3 ± 0.4 keV I_γ = 6.05 ± 0.18 β⁺

IRDF-90 - eval. - 1991 M. Wagner et al.
 D-99 (JENDL/D-99) - eval. - Nov 1997 K. Kobayashi.
 ENDF/B-VI - eval. - Apr 1976 M. Drake, D. Sargis, T. Maung, P. Rose.
 JENDL-3.2 - eval. - Aug 1989 JNDC FP Nuclear Data W.G.
 BROND-2 - eval. - Dec 1988 O. Grudzevich et al.

Tabl. 1

U-235					
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	BROND-2
10%	12.90	12.90	12.70	12.70	12.80
50%	14.10	14.10	14.00	14.00	14.10
90%	16.20	16.20	16.10	16.10	16.10
ACS	8.09E-05	7.89E-05	8.82E-05	8.44E-05	8.19E-05

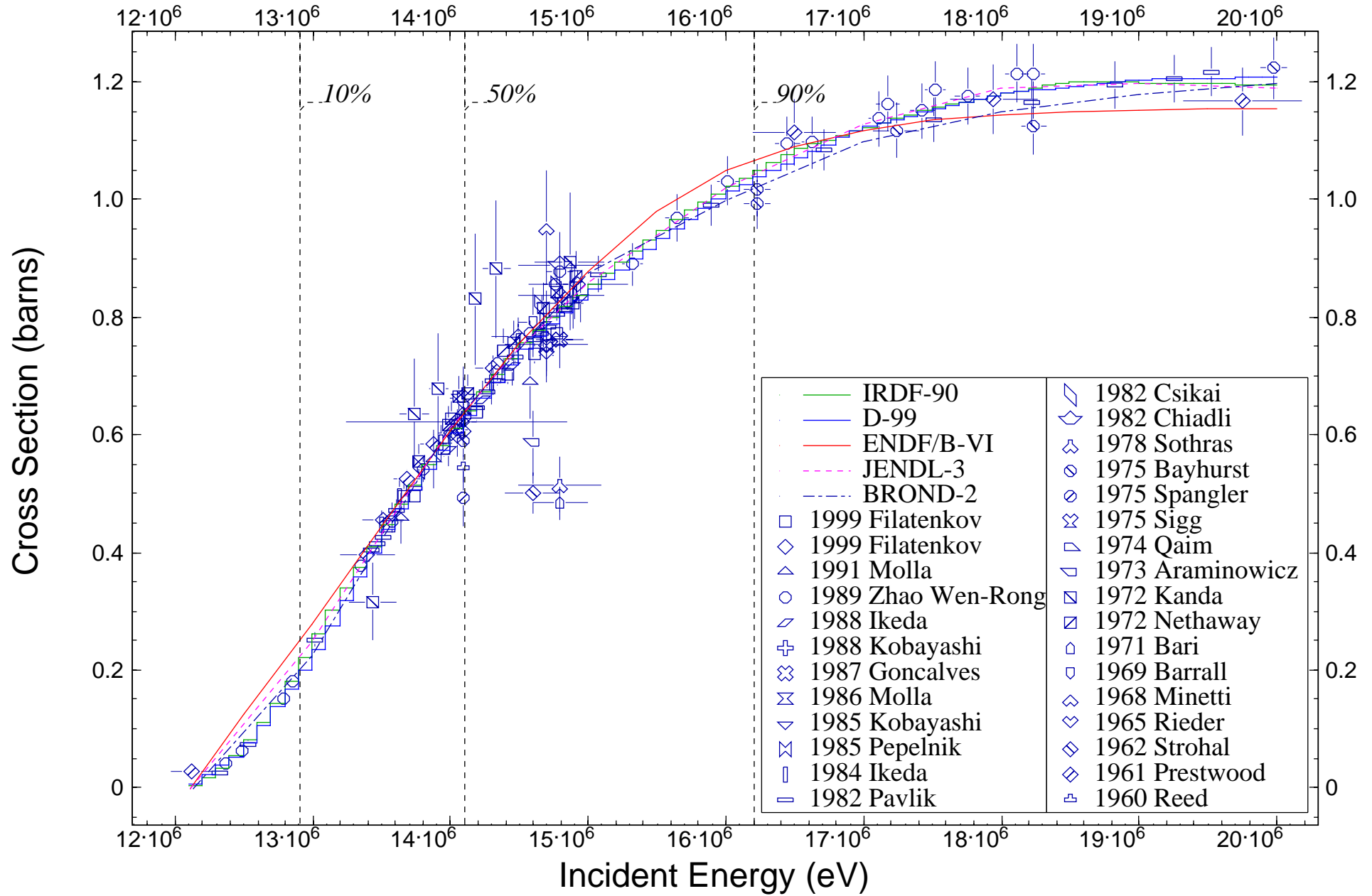
Tabl. 2

Cf-252					
	IRDF-90	D-99	ENDF/B-VI	JENDL-3	BROND-2
10%	12.90	12.90	12.80	12.80	12.80
50%	14.20	14.30	14.10	14.20	14.20
90%	16.40	16.40	16.30	16.30	16.30
ACS	2.00E-04	1.94E-04	2.15E-04	2.06E-04	2.01E-04

Tabl. 3

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022018
1.4+07	1.5+07	12	1USALRL	J,NP/A,190,635	72 D.R.NETHAWAY	10312004
1.5+07	1.5+07	1	1USAARK	T,BARI	71 A.BARI	10431039
1.5+07	1.5+07	1	1USAARK	J,JIN,37,631	7503 R.A.SIGG,	10477009
1.4+07	2.5+07	7	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536015
1.6+07	2.8+07	4	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536016
1.5+07	1.5+07	1	1USASMU	J,JIN,40,585	78 S.L.SOTHRAS,	10751002
1.2+07	2.0+07	15	1USALAS	J,PR,121,1438	6103 R.J.PRESTWOOD,	11645014
1.4+07	1.4+07	1	1USALAS	R,TID-11929	60 C.H.REED	11896005
1.4+07	1.4+07	1	1USATEX	J,ANS,22,818	7511 R.SPANGLER,	12956006
1.4+07	1.5+07	2	2AUSIRK	P,EANDC(OR)-38,1	6504 R.RIEDER,	20033009
1.5+07	1.5+07	1	2AUSIRK	P,EANDC(OR)-38,1	6504 R.RIEDER,	20033010
1.3+07	1.5+07	6	2JPNKYU	J,NP/A,185,177	7204 Y.KANDA	20338006
1.5+07	1.5+07	1	2GERJUL	R,EUR-5182E,939	7409 S.M.QAIM,	20513009
1.5+07	1.5+07	1	2ITYTUR	J,NP/A,118,449	6810 B.MINETTI,	20891014
1.2+07	2.0+07	13	2AUSIRK	J,JP/G,8,1283	82 A.PAVLIK,	21807002
1.3+07	1.5+07	17	2AUSIRK	J,JP/G,8,1283	82 A.PAVLIK,	21807003
1.3+07	1.5+07	11	2JPNJAE	W,IKEDA	8411 Y.IKEDA,	21945003
1.5+07	1.5+07	1	2GERKIG	C,85SANTA,1,211(JA46)	85 R.PEPELNIK,	21976026
1.3+07	1.5+07	8	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089053
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093017

1.5+07	1.5+07	1	3YUGRBZ	J,NP,30,49	6202 F.STROHAL,	30008013
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARMINOWICZ,	30264027
1.3+07	1.5+07	6	3HUNKOS	C,82ANTWER.,414	8209 J.CSIKAI	30640007
1.5+07	1.5+07	1	3CPRAEP	R,INDC(CPR)-16	8908 ZHAO WEN-RONG,	30686002
1.2+07	1.8+07	24	3CPRAEP	R,INDC(CPR)-16	8908 ZHAO WEN-RONG,	30686003
1.4+07	1.5+07	2	3MORMOH	P,MOH-5,13	82 A.CHIADLI,	30697003
1.5+07	1.5+07	1	3HUNKOS	J,ARI,38,(11),989	8711 I.F.GONCALVES,	30740003
1.5+07	1.5+07	1	3BANSAV	R,INDC(BAN)-003	8609 N.I.MOLLA,	30825013
1.4+07	1.5+07	5	3BANSAV	C,91JUELIC.,355	9105 N.I.MOLLA,	30985005
1.0+06	1.0+06	1	4CCPFRT	J,YK.,(3),117	8912 E.I.GRIGOREV,	41052003

$^{90}\text{Zr}(n,2n)^{89}\text{Zr}$ 

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