

27-Co-59 (n, α) 25-Mn-56

Abundance (%) = 100		
Q = 0.32836 MeV	$E_{th} = 0.0$	
$T_{1/2} = 2.5785$ h		
$E_{\gamma} = 846.754 \pm 0.020$ keV	$I_{\gamma} = 98.87 \pm 0.30$	β^{-}
$E_{\gamma} = 1810.72 \pm 0.04$ keV	$I_{\gamma} = 27.19 \pm 0.79$	β^{-}
$E_{\gamma} = 2113.05 \pm 0.04$ keV	$I_{\gamma} = 14.34 \pm 0.40$	β^{-}

IRDF-90	- eval. - Apr 1990 A. & D. Smith, P. Guenther, J. Meadows et al.
D-99 (JENDL/D-99)	- eval. - Aug 1996 S. Iwasaki, T. Watanabe.
RRDF-98	- eval. - Dec 1997 K. Zolotarev.
ENDF/B-VI	- eval. - Jul 1989 A. Smith, G. Desaussure et al.
JENDL-3.2	- eval. - Aug 1988 T. Watanabe.
JEF-2	- eval. - Jul 1988 A. & D. Smith et al.
CENDL-2	- eval. - Sep 1985 H. Qi.

Tabl. 1

U-235							
	IRDF-90	D-99	RRDF-98	ENDF/B-VI	JENDL-3	JEF-2	CENDL-2
10%	6.10	6.10	6.10	6.10	6.10	6.10	6.20
50%	8.00	7.90	8.00	8.00	7.90	8.00	7.90
90%	10.80	10.70	10.80	10.80	10.70	10.80	10.80
ACS	1.49E-04	1.60E-04	1.52E-04	1.49E-04	1.60E-04	1.49E-04	1.53E-04

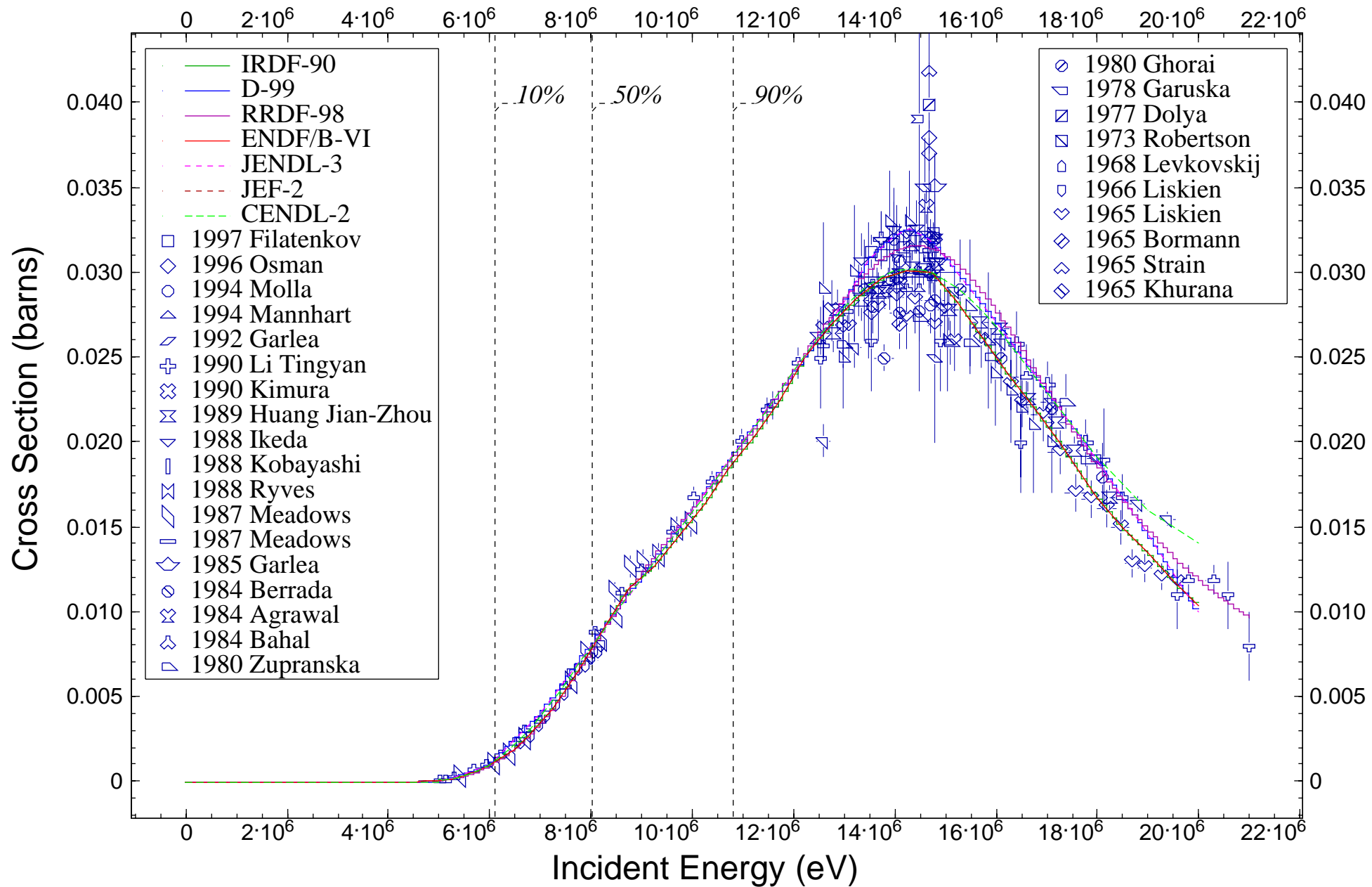
Tabl. 2

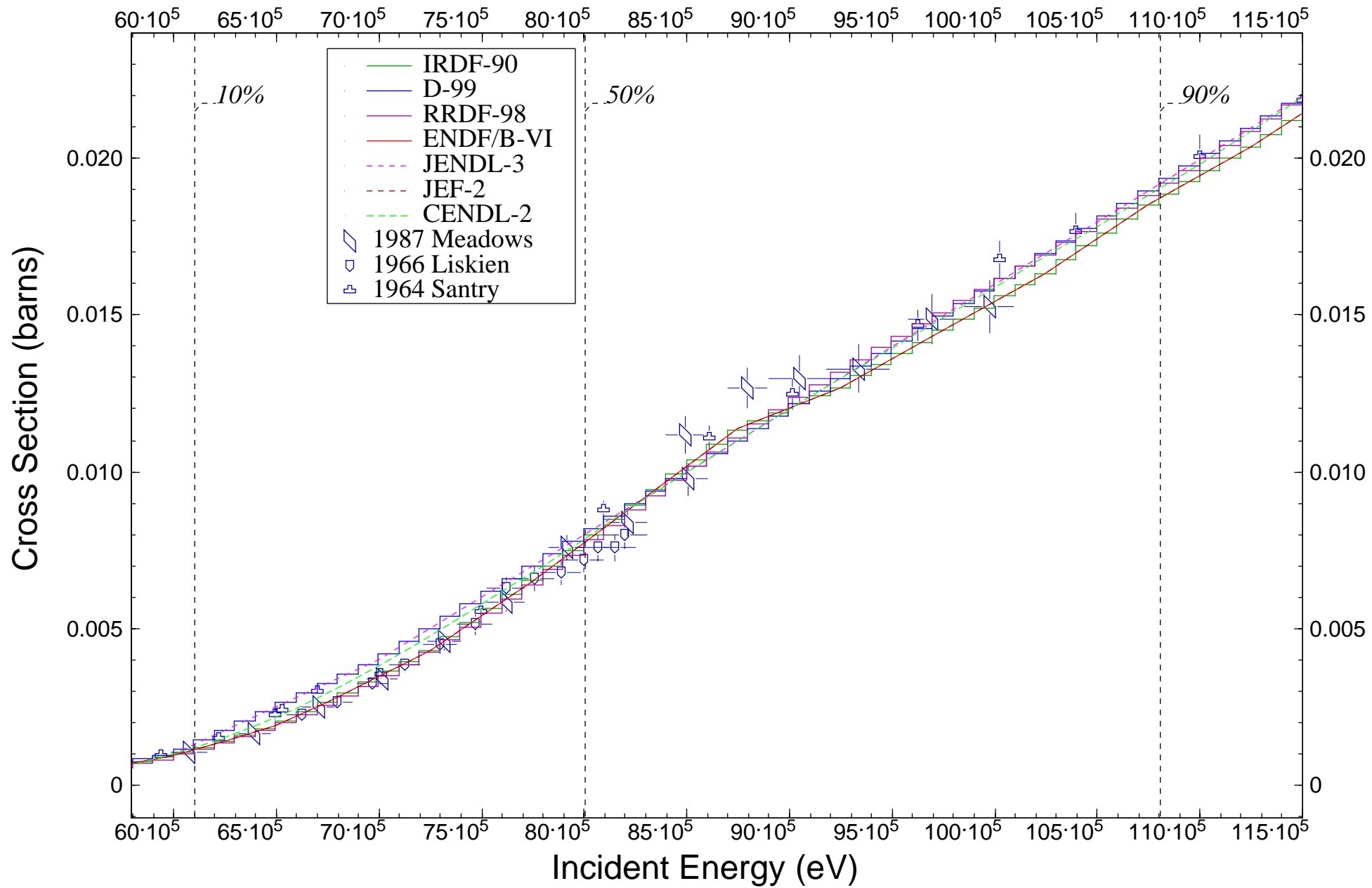
Cf-252							
	IRDF-90	D-99	RRDF-98	ENDF/B-VI	JENDL-3	JEF-2	CENDL-2
10%	6.20	6.20	6.30	6.25	6.20	6.25	6.30
50%	8.30	8.10	8.30	8.30	8.10	8.30	8.25
90%	11.40	11.30	11.40	11.40	11.30	11.40	11.40
ACS	2.21E-04	2.36E-04	2.26E-04	2.21E-04	2.36E-04	2.21E-04	2.27E-04

Tabl. 3

1.5+07	1.5+07	1	2GERKIG	R,GKSS-84-E-	84	B.M.BAHAL,	21936017
1.4+07	1.8+07	6	3CPRBJG 3CPRAEP	J,PHE,14,(6),542		9006 LI TINGYAN,	32591003
1.5+07	1.5+07	1	4CCPKAZ	J,YF,8,(1),7		6807 V.N.LEVKOVSKIJ,	40223009
1.4+07	1.4+07	1	2GERPTB	C,94GATLIN,,285		9405 W.MANNHART,	22327003
1.4+07	1.5+07	2	2UK NPL	J,ANE,15,561		8812 T.B.RYVES,	22132002
1.5+07	1.5+07	1	4CCPUFT	J,VAT/F,1,(18),15		77 G.P.DOLYA,	88006004
1.3+07	1.5+07	8	2JPNJAE	R,JAERI-1312		88 Y.IKEDA,	22089046
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261		88 K.KOBAYASHI,	22093012
1.5+07	1.5+07	1	3CPRAEP	R,INDC(CPR)-16		8908 HUANG JIAN-ZHOU,	30608002
1.2+07	1.8+07	19	3CPRAEP	R,INDC(CPR)-16		8908 HUANG JIAN-ZHOU,	30608003
1.4+07	1.4+07	1	2JPNKTO	J,NSE,106,332		90 I.KIMURA,	22214019
1.5+07	1.5+07	1	1USAORL	R,ORNL-3672		6501 J.E.STRAIN,	11263020
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267		53 E.B.PAUL,	11274032
1.3+07	1.7+07	14	1USAPTY	J,PR,128,1276		62 F.GABBARD,	11494010
5.0+06	6.5+06	3	1CANCRC	J,CJP,42,1030		64 D.C.SANTRY,	11701005
5.3+06	1.4+07	21	1CANCRC	J,CJP,42,1030		64 D.C.SANTRY,	11701006
1.4+07	2.0+07	9	1CANCRC	J,CJP,42,1030		64 D.C.SANTRY,	11701007
1.5+07	1.5+07	1	1USAARK	J,NP,15,326		6002 I.L.PREISS,	11740003
1.4+07	1.4+07	1	1USAORL	J,PR,110,531		58 H.G.BLOSSER,	11747002
1.5+07	1.5+07	1	1USAMHG	J,ANS,47,431		8411 H.M.AGRAWAL,	12863002
1.5+07	1.5+07	1	1USAANL	J,ANE,14,489		8709 J.W.MEADOWS,	12969016

1.5+07	1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459015
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464012
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464013
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464014
1.5+07	1.5+07	1	2JPNKTO	J,JPJ,13,325	5804 I.KUMABE	20283010
1.3+07	2.0+07	28	2ZZZGEL	J,JNE,19,73	6502 H.LISKIEN,	20377003
6.6+06	8.2+06	13	2ZZZGEL	J,NUK,8,315	6606 H.LISKIEN,	20387005
1.4+07	1.5+07	5	3BANRAM	C,94GATLIN,2,938	9405 N.I.MOLLA,	31449007
1.3+07	1.8+07	6	1USAAUB 1USAALS	J,ANE,7,41	80 S.K.GHORAI,	10837002
5.1+06	1.0+07	18	1USAANL	J,ANE,14,603	8711 J.W.MEADOWS,	13113002
1.4+07	1.4+07	1	3INDMUA	C,60WALT AIR,297	6002 C.S.KHURANA,	30403020
1.5+07	1.5+07	1	3POLLOU	P,INR-1773/I/PL/A,16	7809 U.GARUSKA,	30479007
1.3+07	1.8+07	10	3POLIBJ	J,APP/B,11,853	8011 E.ZUPRANSKA,	30581005
1.5+07	1.5+07	1	3RUMCIP	J,RRP,30,(8),673	85 I.GARLEA,	30804004
1.4+07	1.5+07	5	3MORMOH	W,BERRADA	8404 M.BERRADA	30805007
1.4+07	1.5+07	1	3AULCBR	J,AUJ,13,186	60 E.WEIGOLD	31039002
1.5+07	1.5+07	1	3INDMUA	J,NP,69,153	6507 C.S.KHURANA,	31316013
1.5+07	1.5+07	1	2UK NPL	J,JNE,27,531	7308 J.C.ROBERTSON,	20799014
1.4+07	1.4+07	1	2GERHAM	J,NP,63,438	6503 M.BORMANN,	20887013
1.3+07	1.9+07	9	2GERHAM	J,JPR,22,602	6110 M.BORMANN,	20904005
1.3+07	2.1+07	8	2FR SAC	J,NP,47,(1),157	6307 J.M.F.JERONYMO,	20922005
1.4+07	1.5+07	7	4RUSRI	R,INDC(CCP)-402	9701 A.A.FILATENKOV,	41240015

$^{59}\text{Co}(n,\alpha)^{56}\text{Mn}$ 

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