

## 27-Co-59 (n, 2n) 27-Co-58

Abundance (%) = 100

Q = -10.45359 MeV

$E_{th}$  = 10.63250 MeV

$T_{1/2}$  = 70.82 d 3

$E_{\gamma}$  = 810.775 ± 0.009 keV

$I_{\gamma}$  = 99.448 ± 0.008

EC+β<sup>+</sup>

IRDF-90 - eval. - Jul 1989 A. & D. Smith, P. Guenther, J. Meadows.  
 D-99 (JENDL/D-99) - eval. - Aug 1996 S. Ywasaki, T. Watanabe.  
 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**

<b>U-235</b>						
	<b>IRDF-90</b>	<b>D-99</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>CENDL-2</b>
10%	11.40	11.40	11.50	11.40	11.50	11.30
50%	12.80	12.80	12.80	12.80	12.80	12.60
90%	14.90	15.00	15.00	15.00	15.00	14.80
<b>ACS</b>	<b>1.81E-04</b>	<b>1.78E-04</b>	<b>1.74E-04</b>	<b>1.80E-04</b>	<b>1.74E-04</b>	<b>2.12E-04</b>

**Tabl. 2**

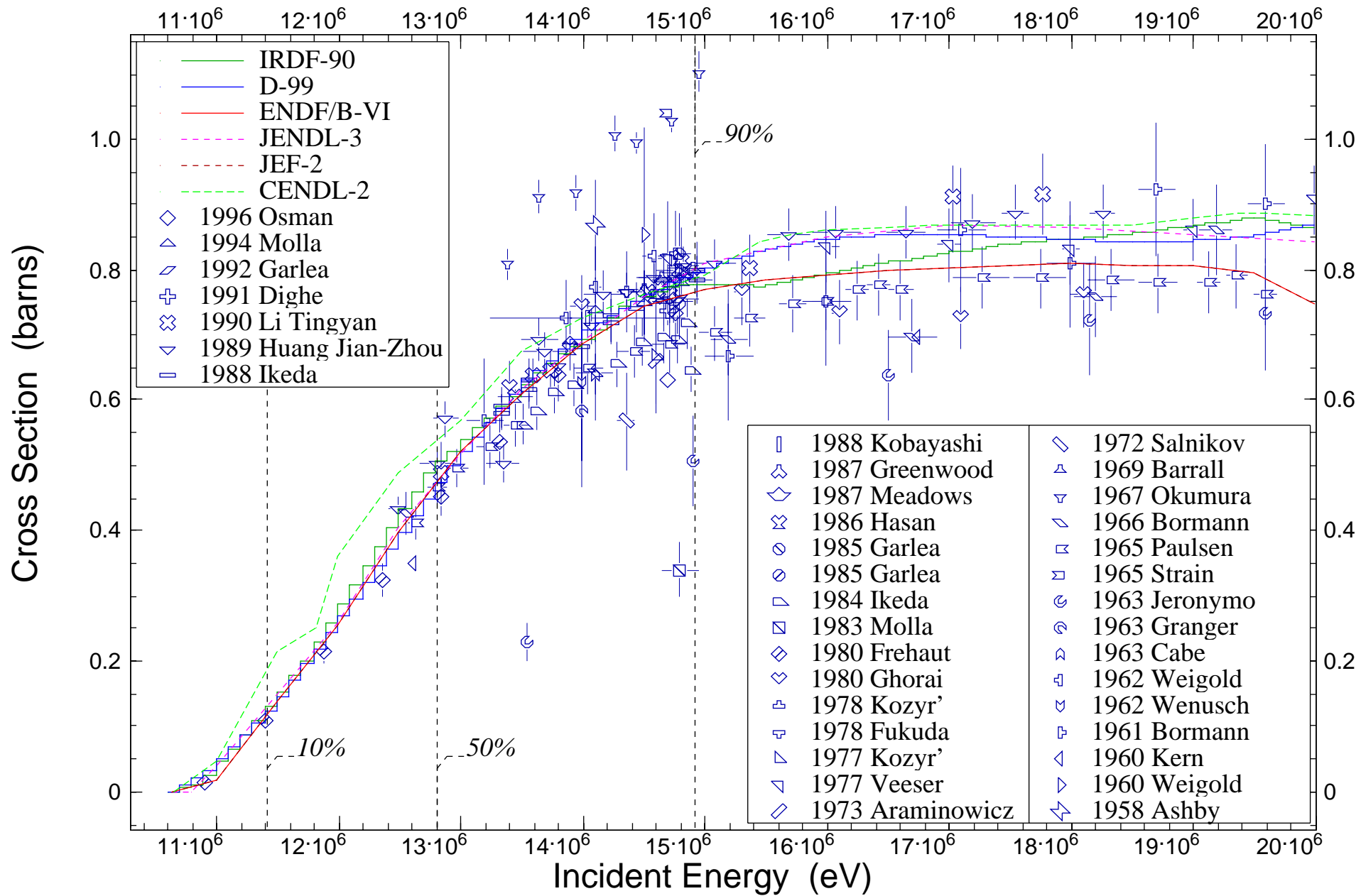
<b>Cf-252</b>						
	<b>IRDF-90</b>	<b>D-99</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>CENDL-2</b>
10%	11.50	11.50	11.50	11.50	11.50	11.40
50%	12.90	13.00	13.00	12.90	13.00	12.80
90%	15.30	15.30	15.30	15.30	15.30	15.20
<b>ACS</b>	<b>3.99E-04</b>	<b>3.94E-04</b>	<b>3.85E-04</b>	<b>3.98E-04</b>	<b>3.85E-04</b>	<b>4.62E-04</b>

**Tabl. 3**

1.4+07	1.4+07	1	2FR BRC	R,EANDC(E)-49L,83	6310 B.GRANGER,	21514002
1.4+07	1.4+07	1	2FR SAC	R,EANDC(E)-49L,82	6310 J.CABE,	21849002
1.3+07	1.5+07	11	2JPNJAE	W,IKEDA	8411 Y.IKEDA,	21945006
1.5+07	1.5+07	1	4CCPKGUG	C,77KIEV,1,256	7704 JU.E.KOZYR,	40596020
1.3+07	1.8+07	9	3CPRBJG 3CPRAEP	J,PHE,14,(6),542	9006 LI TINGYAN,	32591004
1.3+07	1.5+07	4	2AUSIRK	J,JP/G,12,397	86 S.J.HASAN,	21973004
1.5+07	1.5+07	1	3INDPOO	J,IPA,29,665	9110 P.M.DIGHE,	30962004
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARAMINOWICZ,	30264013
1.5+07	1.5+07	1	4CCPKGUG	J,YF,27,616	7803 YU.E.KOZYR',	88016005
2.1+07	2.1+07	1	4CCPKGUG	C,80KIEV,2,54	8009 G.A.PROKOPEC	88019014
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093013
1.5+07	1.5+07	1	3CPRAEP	R,INDC(CPR)-16	8908 HUANG JIAN-ZHOU,	30608004
1.2+07	1.8+07	19	3CPRAEP	R,INDC(CPR)-16	8908 HUANG JIAN-ZHOU,	30608005
1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022011
1.5+07	2.4+07	10	1USALAS	J,PR/C,16,1792	7711 L.R.VEESER,	10445003
1.5+07	1.5+07	1	1USAORL	R,ORNL-3672	6501 J.E.STRAIN,	11263021
1.4+07	1.4+07	1	1USALRL	C,58GENEVA,15,3(2494)	5809 V.J.ASHBY,	11632004
1.5+07	1.5+07	1	1USAANL	J,ANE,14,489	8709 J.W.MEADOWS,	12969015
1.4+07	1.5+07	5	1USAANL	S,ASTM-STP-956,743	87 L.R.GREENWOOD	12977012
1.3+07	1.7+07	2	1USAKTY	P,A-KTY-59/60,3	6002 B.D.KERN,	13032002
1.4+07	1.4+07	1	2AUSIRK	J,OSA,99,1	6201 R.WENUSCH,	20091005
1.5+07	1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459014
1.5+07	1.5+07	1	3SUDKHA	R,INDC(SUD)-001	9610 K.T.OSMAN,	31464015

1.3+07 1.5+07	7	2JPNKTO	J,NP/A,93,74	6703 S.OKUMURA	20303002
1.3+07 2.0+07	23	2ZZZGEL	J,JNE/AB,19,907	6511 A.PAULSEN,	20378005
1.3+07 1.5+07	15	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089044
1.4+07 1.5+07	5	3BANRAM	C,94GATLIN,2,938	9405 N.I.MOLLA,	31449006
1.3+07 1.8+07	6	1USAAUB 1USAALS	J,ANE,7,41	80 S.K.GHORAI,	10837005
1.5+07 1.5+07	1	3BANRAM	P,INDC(BAN)-002,1	8302 N.T.MOLLA,	30577005
1.5+07 1.5+07	1	3RUMCIP	J,RRP,30,(8),673	85 I.GARLEA,	30804003
1.5+07 1.5+07	1	3RUMCIP	S,ZFK-562,126	8507 I.GARLEA,	30807005
1.4+07 1.5+07	1	3AULCBR	J,AUJ,13,186	60 E.WEIGOLD	31039003
1.4+07 1.5+07	5	3AULCBR	J,NP,32,106	62 E.WEIGOLD,	31110004
2.1+07 2.1+07	1	4CCPKGU	J,YF,32,(1),37	8007 G.A.PROKOPETS	41102023
1.1+07 1.5+07	8	2FR BRC	W,FREHAUT	8006 J.FREHAUT,	20416004
1.3+07 1.9+07	6	2GERHAM	J,ZN/A,21,988	6609 M.BORMANN,	20836008
1.5+07 1.5+07	1	2JAPKYU	P,NEANDC(J)-56/U,44	7809 K.FUKUDA,	20841011
1.3+07 2.0+07	8	2GERHAM	J,JPR,22,602	6110 M.BORMANN,	20904006
1.4+07 2.1+07	7	2FR SAC	J,NP,47,(1),157	6307 J.M.F.JERONYMO,	20922007
1.4+07 1.4+07	1	4CCPFEI	R,YK-7,102	7203 O.A.SALNIKOV,	40037134

# $^{59}\text{Co}(n,2n)^{58}\text{Co}$



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