

## 26-Fe-54 (n, p) 25-Mn-54

Abundance (%) = 5.845 ± 0.035  
 Q = 0.08521 MeV      E<sub>th</sub> = 0.0  
 T<sub>1/2</sub> = 312.3 d 4  
 E<sub>γ</sub> = 834.848 ± 0.003 keV      I<sub>γ</sub> = 99.976 ± 0.001      EC+β<sup>+</sup>

IRDF-90                      - eval. - Nov 1989 D. Hetrick, C. Fu, N. Larson.  
 D-99 (JENDL/D-99)       - eval. - Sep 1998 K. Kobayashi, T. Yguchi.  
 ENDF/B-VI                   - eval. - Nov 1989 D. Hetrick, C. Fu, N. Larson.  
 JENDL-3.2                   - eval. - Mar 1987 S. Iijima, H. Yamakoshi.  
 JEF-2                         - eval. - May 1990 F. Froehner, F. Fabbri et al.  
 BROND-2                    - eval. - Nov 1985 V. Pronyaev et al.  
 CENDL-2                    - eval. - Aug 1990 B. Yu, S. Iijima, S. Chiba et al.

**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>BROND-2</b>	<b>CENDL-2</b>
10%	2.60	2.60	2.60	2.60	2.60	2.609200	2.60
50%	4.10	4.20	4.10	4.25	4.10	4.20	4.25
90%	6.60	6.60	6.60	6.75	6.50	6.80	6.75
<b>ACS</b>	<b>7.79E-02</b>	<b>7.87E-02</b>	<b>7.79E-02</b>	<b>7.76E-02</b>	<b>9.33E-02</b>	<b>8.09E-02</b>	<b>7.76E-02</b>

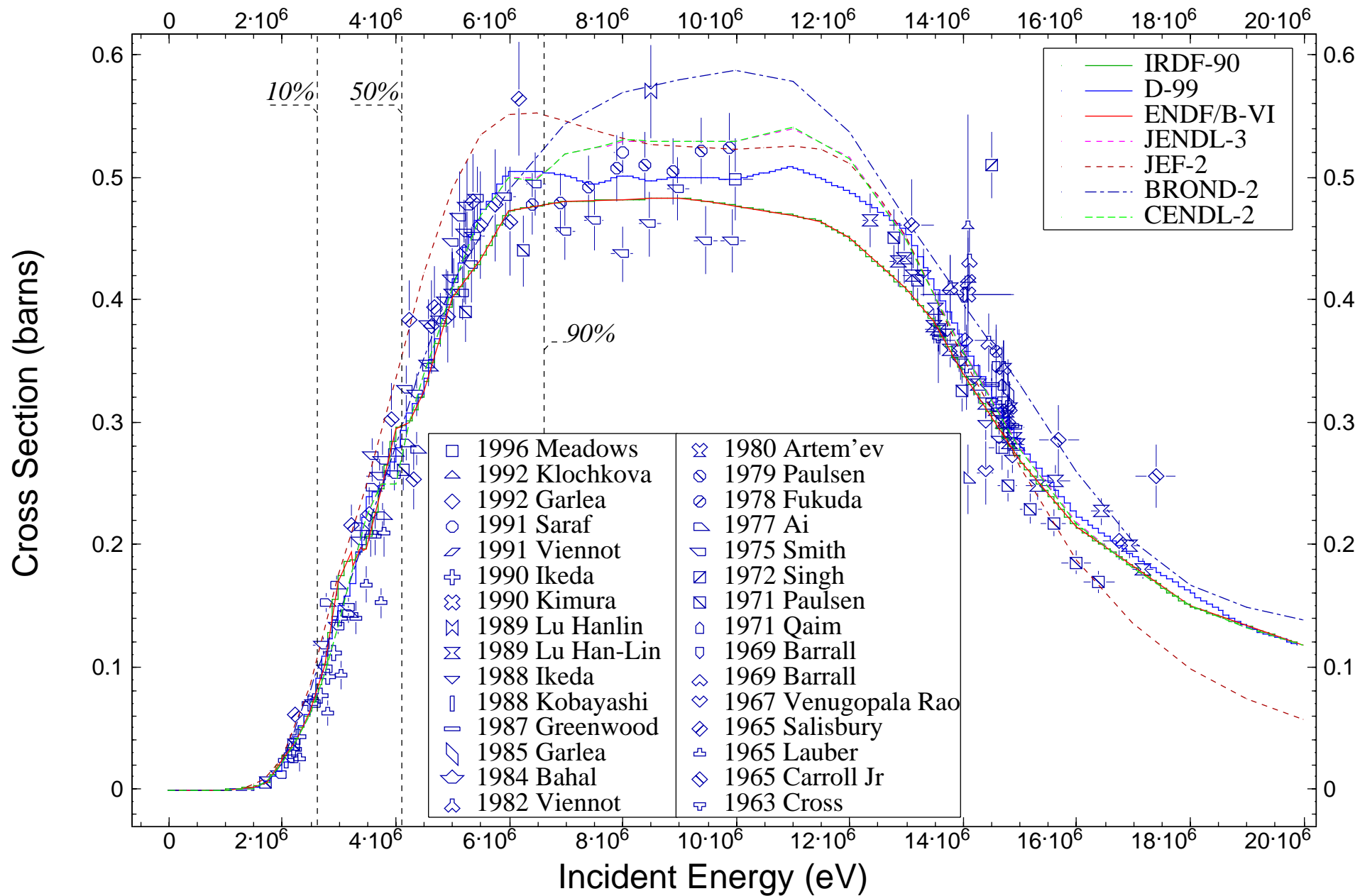
**Tabl. 2**

<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>BROND-2</b>	<b>CENDL-2</b>
10%	2.70	2.70	2.70	2.75	2.60	2.609200	2.75
50%	4.30	4.30	4.30	4.40	4.30	4.40	4.40
90%	6.90	7.00	6.90	7.10	6.80	7.10	7.10
<b>ACS</b>	<b>8.84E-02</b>	<b>8.96E-02</b>	<b>8.84E-02</b>	<b>8.86E-02</b>	<b>1.06E-01</b>	<b>9.22E-02</b>	<b>8.85E-02</b>

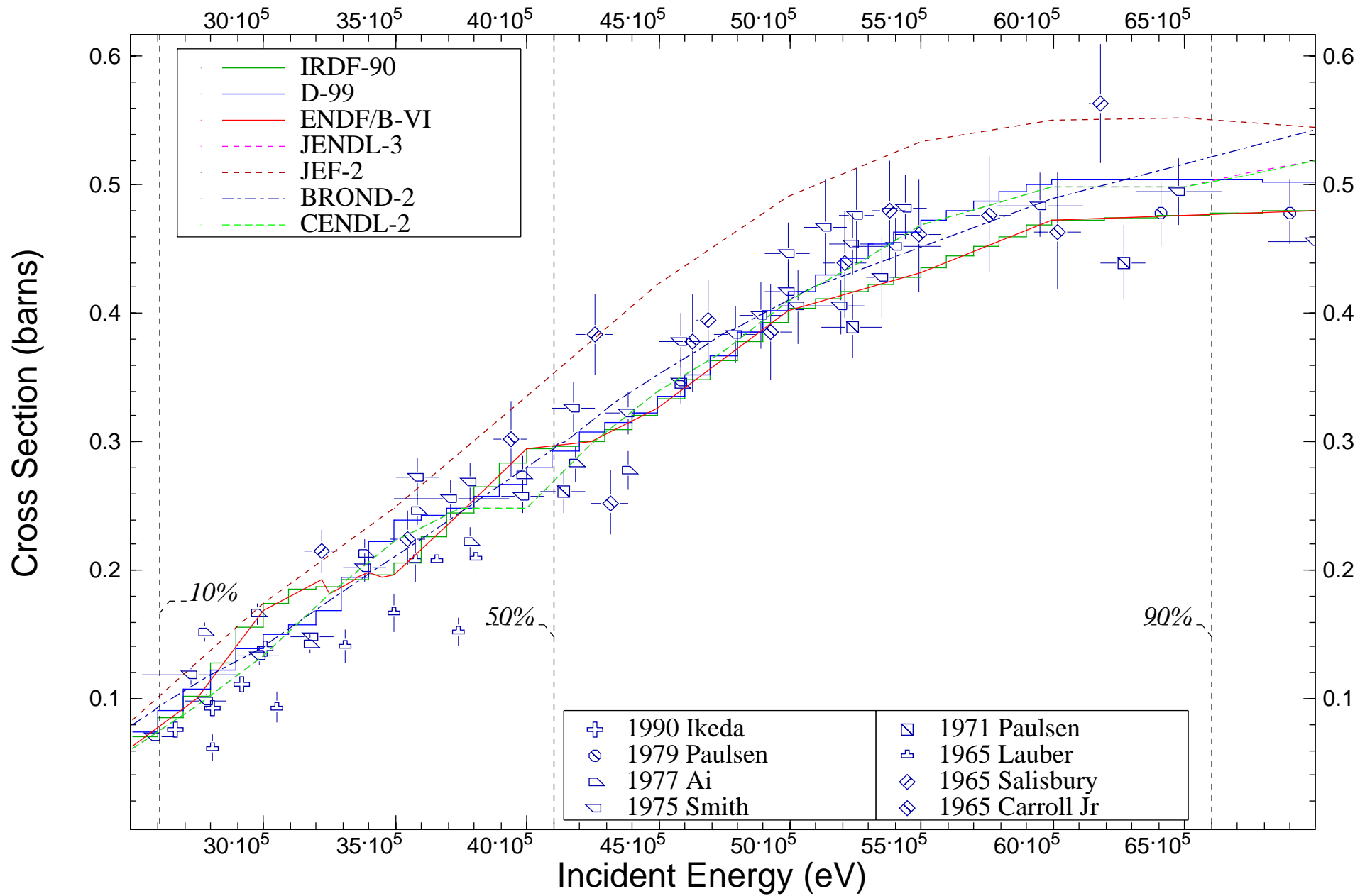
**Tabl. 3**

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022009
1.5+07	1.5+07	1	1USALRL 1USASTF	J,NP/A,138,387	6912 R.C.BARRALL,	10031006
2.0+06	4.0+06	13	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238031
4.2+06	5.4+06	16	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238032
5.4+06	1.0+07	10	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238033
1.4+07	1.5+07	1	1USALRC	J,ANS,15,147	7206 J.J.SINGH	10309002
1.4+07	1.5+07	3	1CANCRC	P,EANDC(CAN)-16,1	6301 W.G.CROSS,	11696004
1.4+07	1.5+07	1	1CANCRC	P,EANDC(CAN)-16,1	6301 W.G.CROSS,	11696006
3.5+06	6.0+06	9	1USABET	J,NSE,22,411	65 E.E.CARROLL JR,	11707002
1.6+07	1.7+07	2	1USABET	J,NSE,22,411	65 E.E.CARROLL JR,	11707003
2.2+06	1.7+07	9	1USALOK	J,PR/B,140,305	6510 S.R.SALISBURY,	11721003
1.4+07	1.4+07	1	1USAGIT	J,PR,154,1023	67 P.VENUGOPALA RAO,	11722003
8.0+06	8.0+06	1	1USAOHO	J,NSE,107,365	9104 S.K.SARAF,	12812006
1.4+07	1.5+07	5	1USAANL	S,ASTM-STP-956,743	87 L.R.GREENWOOD	12977009
1.0+07	1.0+07	1	1USAANL 1USALAS	J,ANE,23,877	9607 J.W.MEADOWS,	13586003
1.5+07	1.5+07	1	1USAANL 1USALAS	J,ANE,23,877	9607 J.W.MEADOWS,	13586013
2.3+06	3.8+06	9	2SWDAE	J,NP,73,234	6511 A.LAUBER,	20061002
1.7+06	6.3+06	5	2ZZZGEL	C,71CANT,129	7109 A.PAULSEN,	20396002
1.3+07	1.6+07	9	2ZZZGEL	C,71CANT,129	7109 A.PAULSEN,	20396003
1.5+07	1.5+07	1	2GERJUL	C,71CANT,,121	7109 S.M.QAIM,	20554004
1.5+07	1.5+07	1	2JAPKYU	P,NEANDC(J)-56/U,44	7809 K.FUKUDA,	20841002

1.4+07	1.4+07	1	2UK HAR	J,NP,10,348	5903 D.L.ALLAN	20961010
6.4+06	9.9+06	8	2ZZZGEL	J,NSE,72,(1),113	7910 A.PAULSEN,	21309005
1.4+07	1.4+07	1	2GERHAM	J,ZN/A,16,227	61 H.POLLEHN,	21352006
1.4+07	1.4+07	1	2UK HAR	J,PPS/A,70,195	5703 D.L.ALLAN	21487006
1.5+07	1.5+07	1	2GERKIG	R,GKSS-84-E-	84 B.M.BAHAL,	21936015
1.3+07	1.5+07	8	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089040
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093010
2.1+06	3.0+06	8	2JPNJAE	P,NEANDC(J)-155,11	9008 Y.IKEDA,	22191003
1.4+07	1.4+07	1	2JPNKTO	J,NSE,106,332	90 I.KIMURA,	22214015
2.8+06	4.6+06	10	3CHFSHI	J,NSF,14,(4),1	7712 C.E.AI,	30457003
1.4+07	1.5+07	5	3MORMOH	C,82ANTWER,,406	8209 M.VIENNOT,	30644005
1.2+07	1.7+07	24	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30671002
8.5+06	8.5+06	1	3CPRAEP	R,INDC(CPR)-16	8909 LU HANLIN,	30733007
1.5+07	1.5+07	1	3RUMCIP	S,ZFK-562,126	8507 I.GARLEA,	30807009
1.4+07	1.5+07	5	3MORRAB	J,NSE,108,289	9107 M.VIENNOT,	30979006
1.5+07	1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459012
1.4+07	1.4+07	1	4RUSTIL	J,YK.,(1),27	92 L.I.KLOCHKOVA,	41118009
1.5+07	1.5+07	1	4CCPKAZ	J,AE,49,(3),195	8009 O.I.ARTEMEV,	88021006

$^{54}\text{Fe}(n,p)^{54}\text{Mn}$ 

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