

## 9-F-19 (n, 2n) 9-F-18

Abundance (%) = 100  
 Q = -10.43224 MeV                      E<sub>th</sub> = 10.98611 MeV                      β<sup>+</sup>  
 T<sub>1/2</sub> = 109.77 m 5  
 E<sub>β<sup>+</sup></sub> = 633.5 keV                      I<sub>β<sup>+</sup></sub> = 0.9673

IRDF-90                      - eval. - 1991 M. Wagner et al.  
 D-99 (JENDL/D-99)       - eval. - Jul 1996 T.Yguchi.  
 RRDF-98                   - eval. - Dec 1993 K. Zolotarev, A. Pashchenko.  
 ENDF/B-VI                - eval. - Jun 1990 Z. Zhao, C. Fu, D. Larson.  
 JENDL-3.2                - eval. - Jul 1989 T. Sugi.  
 JEF-2                      - eval. - Jun 1982 Scientific Co-ordination Group.  
 BROND-2                 - eval. - Nov 1990 A. Blokhin, N. Rabotnov.  
 CENDL-2                 - eval. - Jun 1990 Z. Zhao, C. Fu, D. Larson.

**Tabl. 1**

<b>U-235</b>								
	<b>IRDF90</b>	<b>D-99</b>	<b>RRDF-98</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>BROND-2</b>	<b>CENDL-2</b>
10%	12.10	12.00	12.10	12.20	11.90	12.00	12.40	12.20
50%	13.60	13.60	13.70	13.60	13.30	13.50	13.90	13.60
90%	15.90	15.90	16.00	15.90	15.70	15.90	16.10	15.90
<b>ACS</b>	<b>6.60E-06</b>	<b>7.19E-06</b>	<b>6.48E-06</b>	<b>7.50E-06</b>	<b>8.66E-06</b>	<b>9.02E-06</b>	<b>6.09E-06</b>	<b>7.50E-06</b>

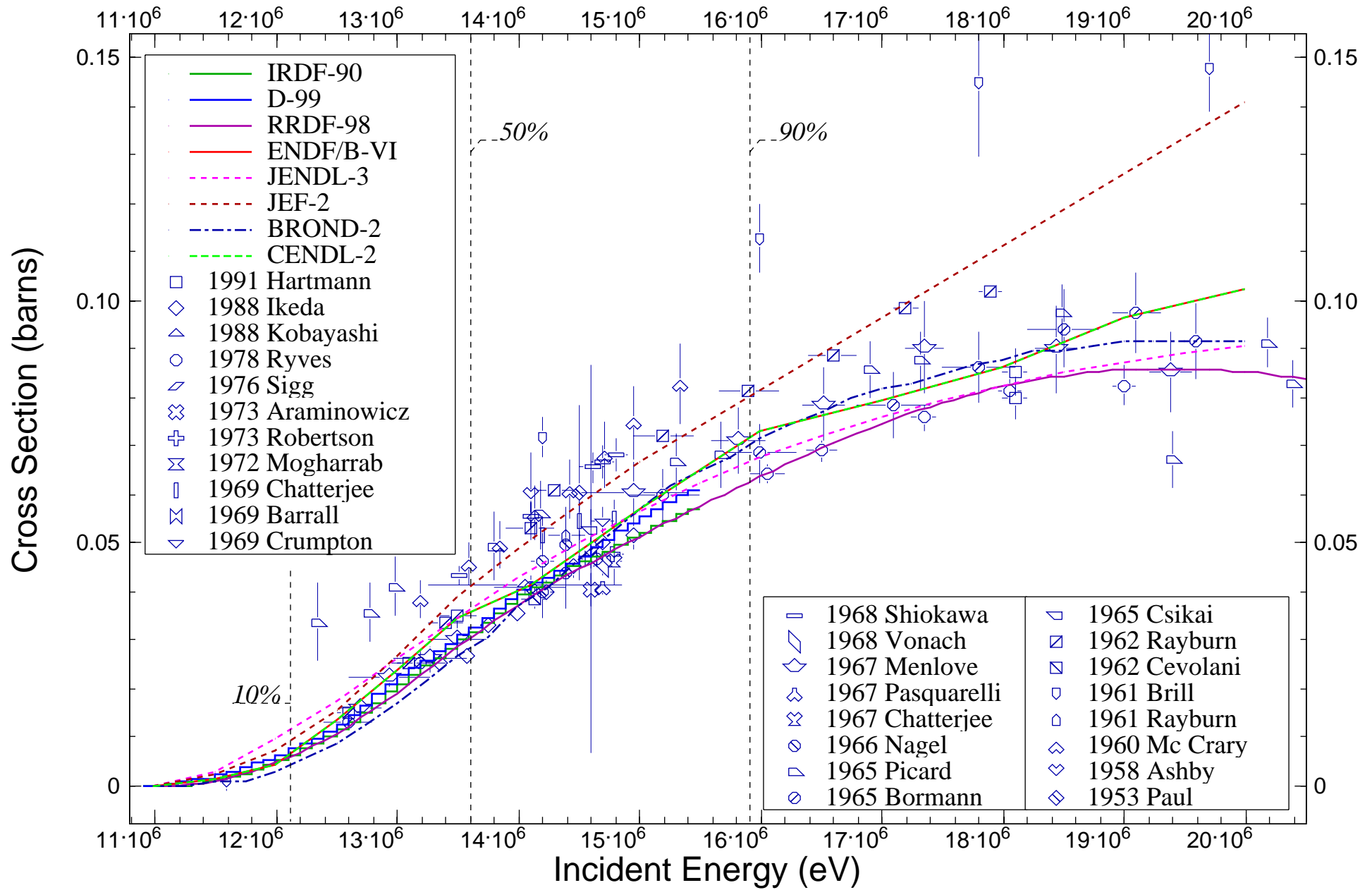
**Tabl. 2**

<b>Cf-252</b>								
	<b>IRDF-90</b>	<b>D-99</b>	<b>RRDF-98</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>BROND-2</b>	<b>CENDL-2</b>
10%	12.20	12.10	12.20	12.20	11.90	12.10	12.50	12.20
50%	13.80	13.80	13.80	13.80	13.50	13.70	14.10	13.80
90%	16.20	16.20	16.20	16.20	16.00	16.20	16.40	16.20
<b>ACS</b>	<b>1.56E-05</b>	<b>1.69E-05</b>	<b>1.54E-05</b>	<b>1.77E-05</b>	<b>2.00E-05</b>	<b>2.12E-05</b>	<b>1.47E-05</b>	<b>1.77E-05</b>

**Tabl. 3**

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022002
1.5+07	1.5+07	1	1USAARK	T,SIGG	76 R.A.SIGG	10776014
1.4+07	1.4+07	1	1USALRL	J,PR,111,616	58 V.J.ASHBY,	11097009
1.5+07	1.5+07	1	1USAORL	R,ORNL-3672	6501 J.E.STRAIN,	11263005
1.3+07	1.5+07	8	1USATNC	J,BAP,5,246(HA5)	6004 J.H.MC CRARY,	11268003
1.4+07	1.5+07	1	1CANCR	J,CJP,31,267	53 E.B.PAUL,	11274005
1.4+07	1.4+07	1	1USAANL	J,PR,122,168	61 L.A.RAYBURN	11328003
1.3+07	1.9+07	10	1USALOK 1USASTF	J,PR,163,1308	67 H.O.MENLOVE,	11421002
1.3+07	1.8+07	12	1USAANL	C,62PADUA,,322	6209 L.A.RAYBURN	11780002
1.8+07	2.1+07	2	1USAWis	J,NSE,109,319	9111 C.L.HARTMANN,	13524002
1.8+07	2.7+07	5	1USAWis	J,NSE,109,319	9111 C.L.HARTMANN,	13524003
1.4+07	1.4+07	1	2NEDAMS	T,NAGEL	6612 W.NAGEL	20198002
1.4+07	1.4+07	1	2NEDAMS	T,NAGEL	6612 W.NAGEL	20198003
1.4+07	1.4+07	1	2NEDAMS	T,NAGEL	6612 W.NAGEL	20198004
1.4+07	1.4+07	1	2NEDAMS	T,NAGEL	6612 W.NAGEL	20198005
1.3+07	1.5+07	5	2JPNTOH	J,JIN,30,1	6801 T.SHIOKAWA,	20278002
1.5+07	1.5+07	1	2UK NPL	J,JNE,27,531	7308 J.C.ROBERTSON,	20799003

1.5+07 1.5+07	1	2GERMUN	C,68WASH,2,885	6803 H.K.VONACH,	20815002
1.5+07 1.9+07	6	2UK NPL	J,JP/G,4,(11),1783	78 T.B.RYVES,	20867003
1.3+07 2.0+07	10	2GERHAM	J,NP,63,438	6503 M.BORMANN,	20887003
1.5+07 1.5+07	1	2ITYTUR	J,NP/A,93,218	6703 A.PASQUARELLI	20889003
1.2+07 2.1+07	15	2FR SAC	J,NP,63,673	6504 J.PICARD,	20892004
1.5+07 1.5+07	1	2UK BIA	J,JIN,31,3727	6912 D.CRUMPTON	20931002
1.4+07 1.4+07	1	2ITYBOL	J,NC,26,1328	6212 M.CEVOLANI,	21266003
1.4+07 1.4+07	1	2GERHAM	J,AKE,19,107	7204 R.MOGHARRAB,	21509006
1.3+07 1.5+07	8	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089002
1.4+07 1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093002
1.4+07 1.4+07	1	2JPNKTO	J,NSE,106,332	90 I.KIMURA,	22214007
1.5+07 1.5+07	1	3HUNDEB	C,65ANTWERP,,537	6507 J.CSIKAI	30038003
1.5+07 1.5+07	1	3INDBOS	P,BARC-305,30	6710 A.CHATTERJEE,	30061002
1.5+07 1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARAMINOWICZ,	30264003
1.4+07 1.5+07	3	3INDBOS	C,69ROORKEE,2,117	6912 A.CHATTERJEE,	30612003
1.2+07 3.4+07	11	4CCPKUR	J,DOK,136,(1),55	61 O.D.BRILL,	40715005

$^{19}\text{F}(n,2n)^{18}\text{F}$ 

$^{19}\text{F}(n,2n)^{18}\text{F}$ 