

## 92-U-238 (n, $\gamma$ ) 92-U-239

Abundance (%) =  $99.2742 \pm 0.0010$        $T_{1/2} = 4.468 \cdot 10^9 \text{ y } 3$   
 $Q = 4.80630 \text{ MeV}$        $E_{\text{thr}} = 0.0 \text{ MeV}$

$T_{1/2} = 23.45 \text{ m } 2$   
 $E_{\gamma} = 43.533 \pm 0.001$        $I_{\gamma} = 4.14 \pm 0.13$        $\beta^{-}$   
 $E_{\gamma} = 74.664 \pm 0.001$        $I_{\gamma} = 48.1 \pm 1.0$        $\beta^{-}$

IRDF-90                      - eval. - Nov 1989 L. Weston, P. Young, W. Poenitz.  
D-99 (JENDL/D-99)        - eval. - Mar 1994 Y. Kanda et al.  
ENDF/B-VI                   - eval. - Nov 1989 L. Weston, P. Young, W. Poenitz.  
JENDL-3.2                   - eval. - Apr 1987 Y. Kanda et al.  
JEF-2                         - eval. - Jun 1989 M. Moxon, F. Froehner, Y. Kanda et al.  
BROND-2                    - eval. - Jan 1980 M. Nikolaev.  
CENDL-2                    - eval. - May 1990 G. Tang.

**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%	1.70E-01	1.60E-01	1.70E-01	1.60E-01	1.75E-01	1.75E-01	1.70E-01
50%	8.80E-01	8.00E-01	8.80E-01	8.36E-01	8.50E-01	8.63E-01	8.80E-01
90%	2.0	1.90	2.00	1.95	1.90	2.10	2.10
<b>ACS</b>	<b>7.16E-02</b>	<b>6.83E-02</b>	<b>7.16E-02</b>	<b>6.83E-02</b>	<b>7.09E-02</b>	<b>7.19E-02</b>	<b>7.15E-02</b>

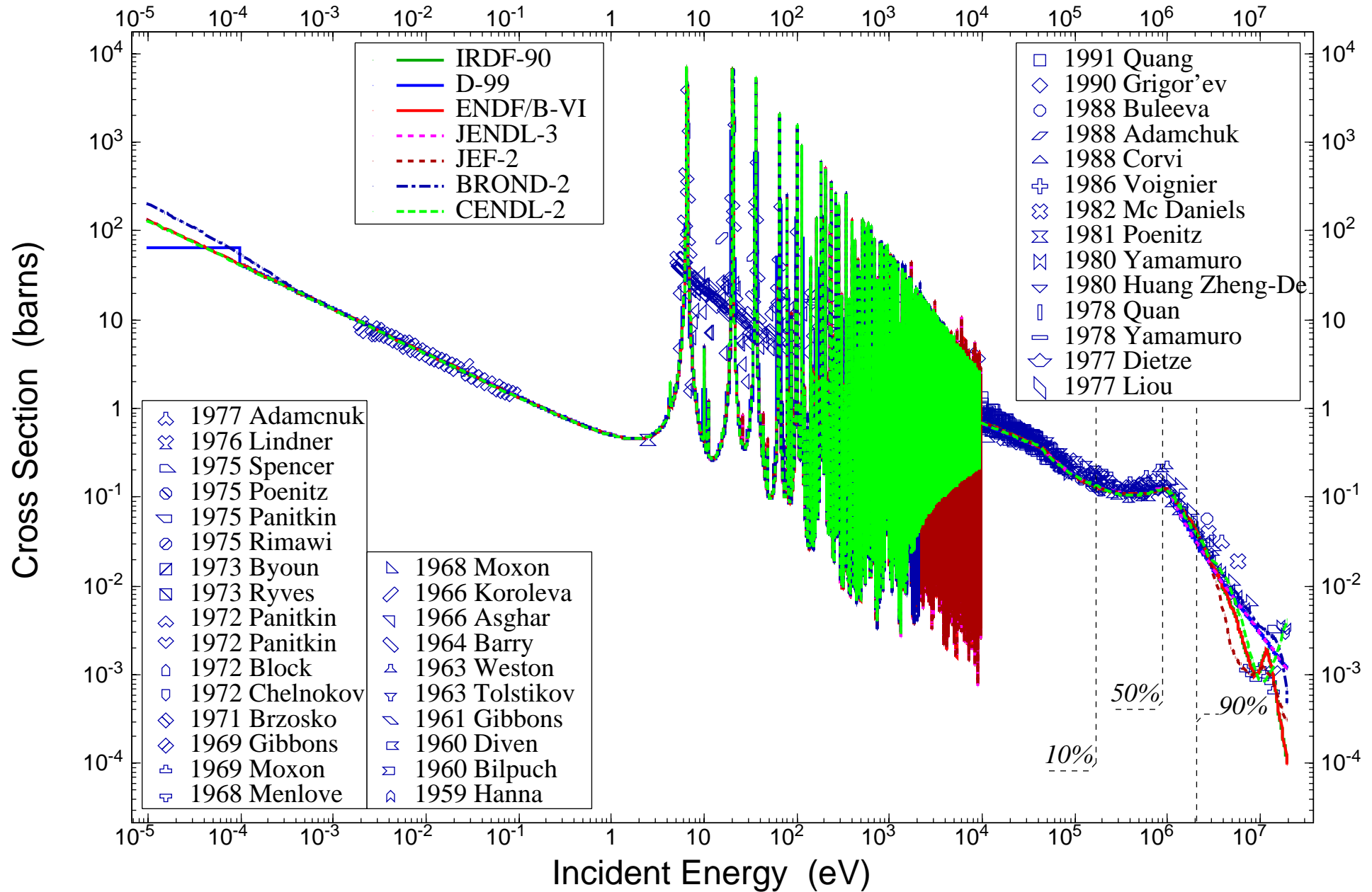
**Tabl. 2**

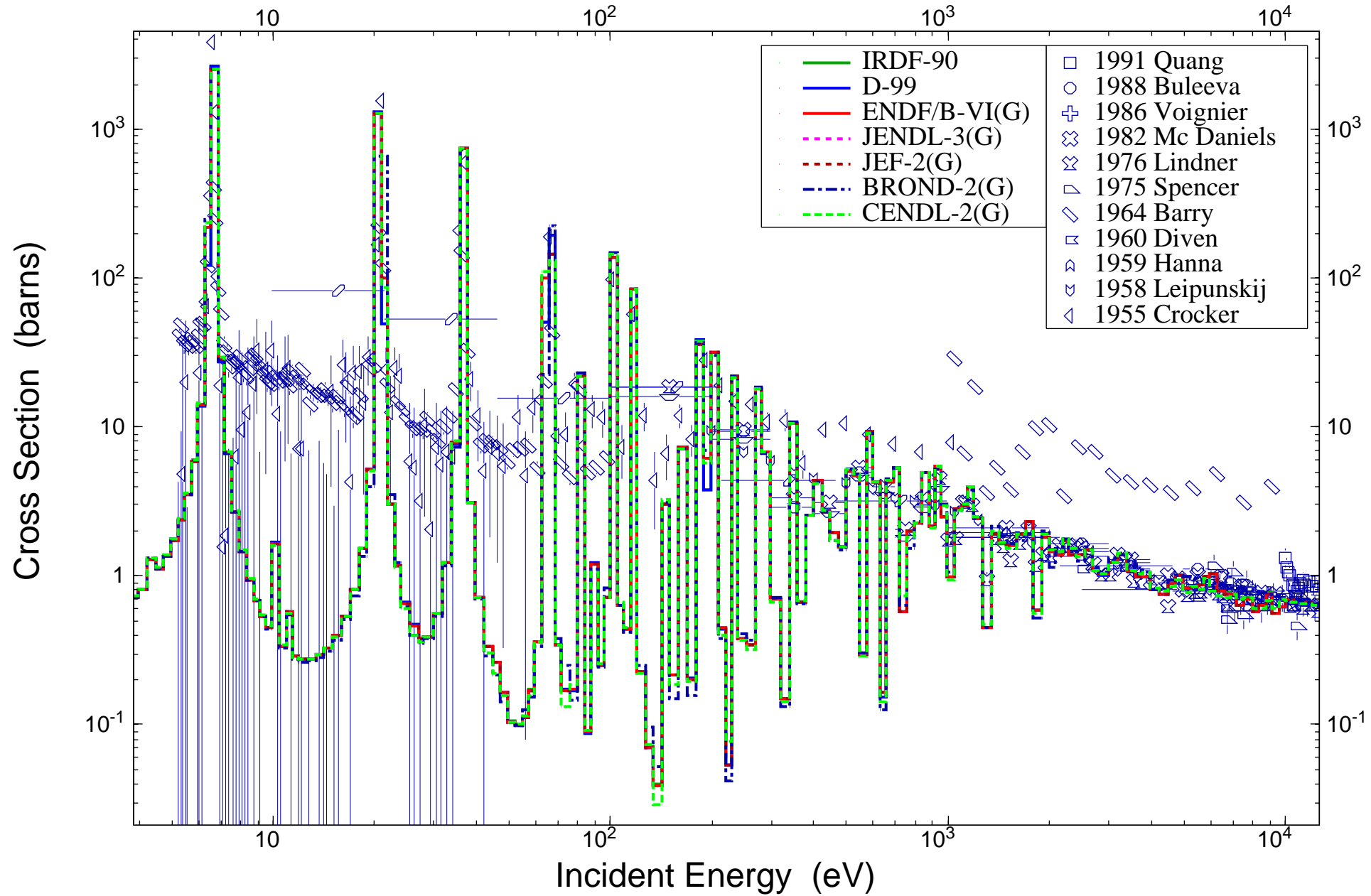
<b>Cf-252</b>							
	<b>IRDF-90</b>	<b>D-99</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>BROND-2</b>	<b>CENDL-2</b>
10%	2.00E-01	1.80E-01	2.00E-01	1.90E-01	1.90E-01	2.01E-01	1.90E-01
50%	8.80E-01	8.40E-01	9.01E-01	8.63E-01	9.01E-01	9.01E-01	9.01E-01
90%	2.10	2.00	2.10	2.06	2.00	2.20	2.20
<b>ACS</b>	<b>6.79E-02</b>	<b>6.47E-02</b>	<b>6.79E-02</b>	<b>6.46E-02</b>	<b>6.71E-02</b>	<b>6.83E-02</b>	<b>6.79E-02</b>

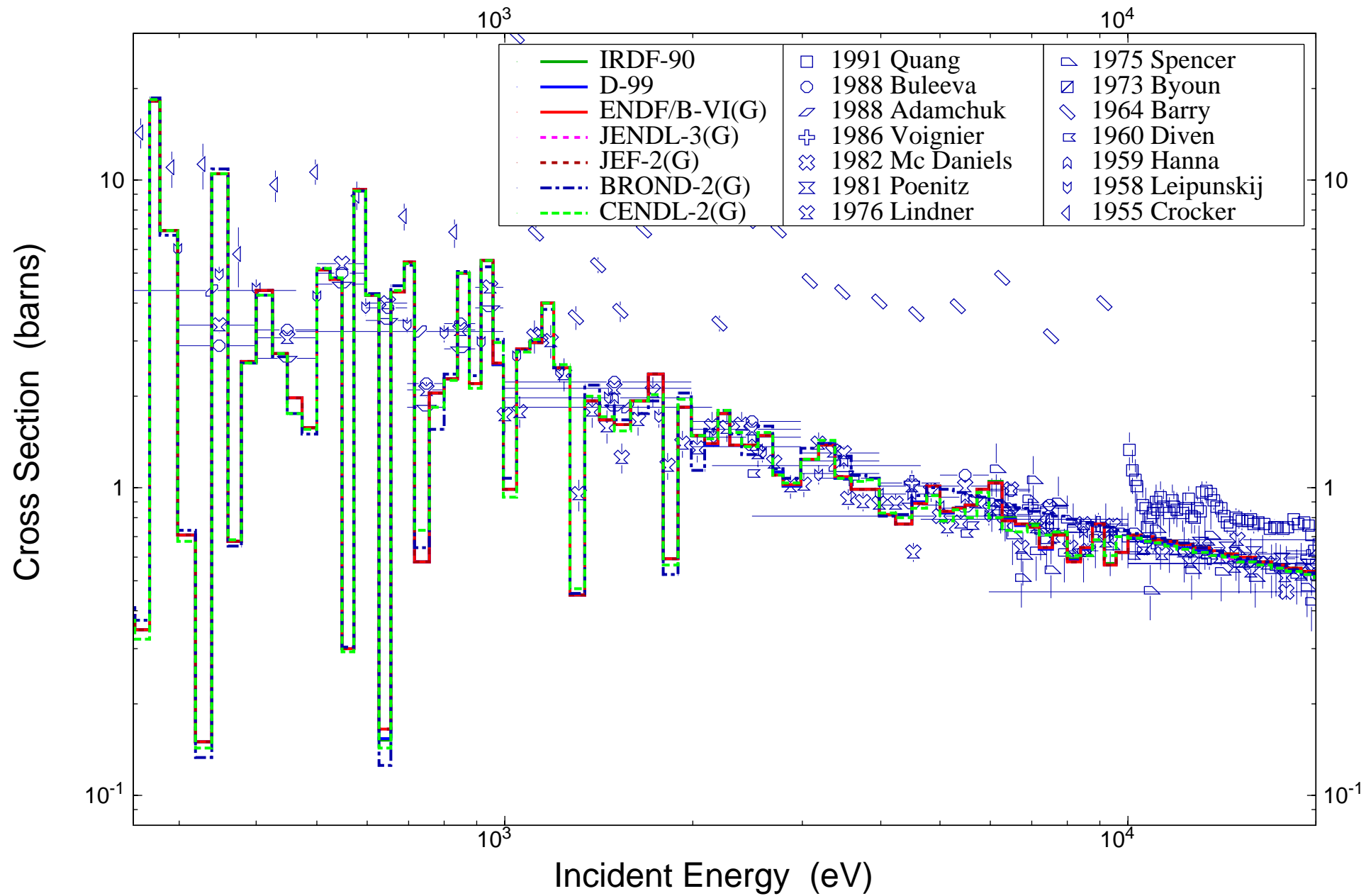
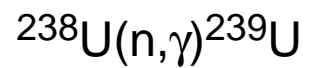
**Tabl. 3**

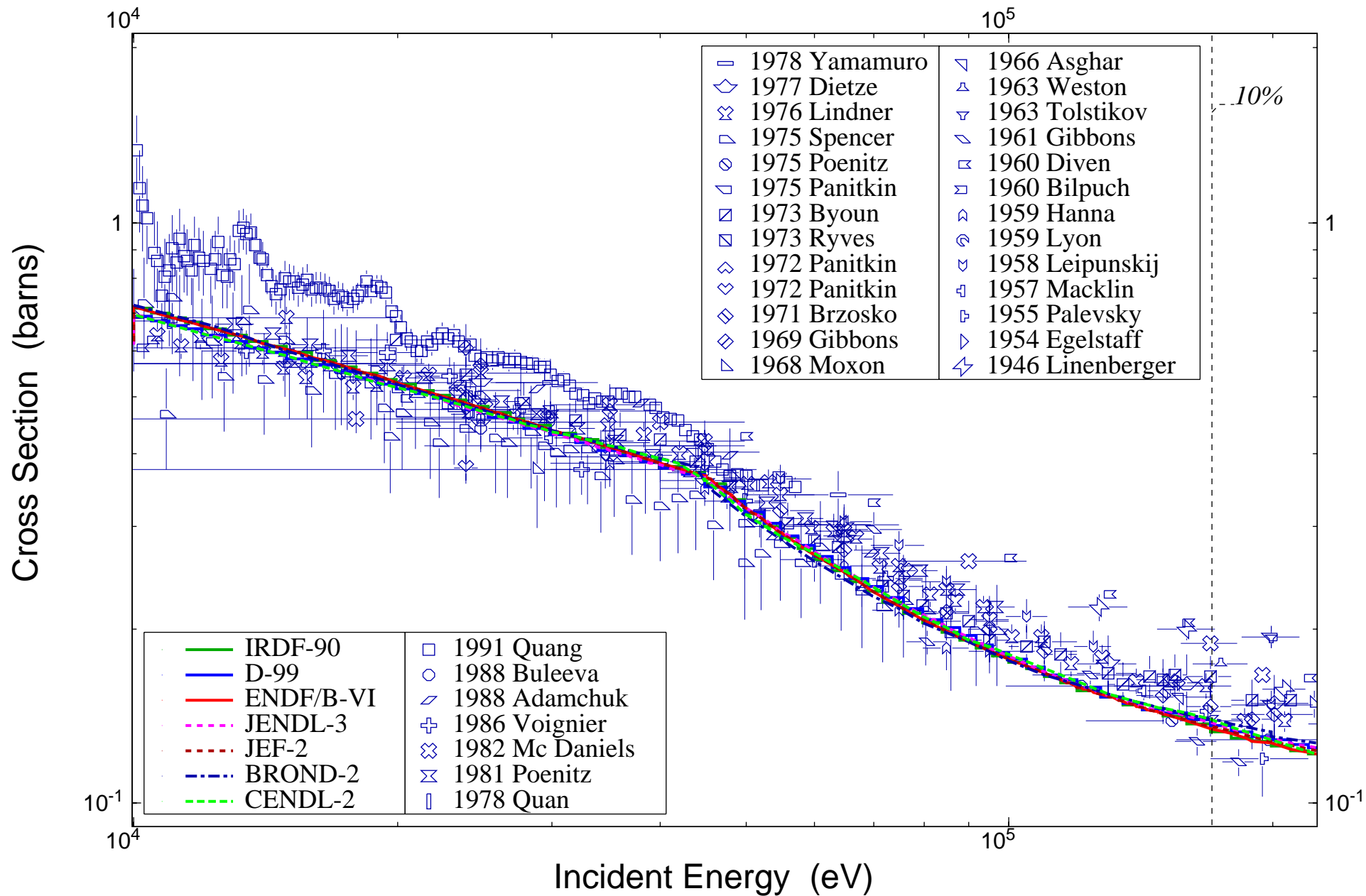
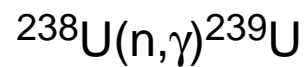
3.0+05	1.7+06	7	1USALRL 1USALAS	J,NSE,59,381	7604 M.LINDNER,	10221062
6.0+05	2.7+06	8	1USALRL 1USALAS	J,NSE,59,381	7604 M.LINDNER,	10221063
2.0+04	4.7+05	44	1USAANL	J,NSE,57,300	7508 W.P.POENITZ	10421003
4.0+05	1.2+06	10	1USAANL	J,NSE,57,300	7508 W.P.POENITZ	10421006
2.4+04	2.4+04	1	1USABNL	C,75WASH,2,920	7503 K.RIMAWI,	10434003
2.5+00	2.5+00	1	1USABNL	J,NSE,62,463	7703 H.I.LIOU,	10575004
1.2+04	1.0+05	21	1USARPI	T,BYOUN	7305 T.Y.BYOUN	10577003
2.4+04	2.4+04	1	1USARPI	C,72KIAMESHA,2,1107	7209 R.C.BLOCK,	10594003
2.4+04	1.9+05	6	1USARPI	R,COO-2479-14	78 B.L.QUAN,	10815002
3.0+04	3.0+06	17	1USAANL	J,NSE,78,239	8107 W.P.POENITZ,	11000003
3.0+04	5.0+05	2	1USAANL	J,NSE,78,239	8107 W.P.POENITZ,	11000004
2.5+03	2.2+05	15	1USADKE	J,AP,10,455	60 E.G.BILPUCH,	11187006
3.0+04	6.5+04	2	1USAORL	J,PR,122,182	61 J.H.GIBBONS,	11329074
2.4+04	2.4+04	1	1USAORL	J,PR,107,504	57 R.L.MACKLIN,	11399052
1.9+05	2.0+05	1	1USAORL	J,PR,114,1619	59 W.S.LYON,	11407034
1.7+05	1.0+06	7	1USALAS	J,PR,120,556	6010 B.C.DIVEN,	11616030
5.0+03	5.9+06	14	1USALAS	R,LA-467	4601 G.A.LINENBERGER,	11945013
1.0+04	5.7+04	125	1USAORL	W,MACKLIN	6904 J.H.GIBBONS,	12229003
2.5-02	2.5-02	1	1USABNL	C,55GENEVA,4,147(832)	55 H.PALEVSKY,	12446002
3.0+04	6.4+04	2	1USAORL	R,EANDC-33,64	6309 L.W.WESTON,	12456002

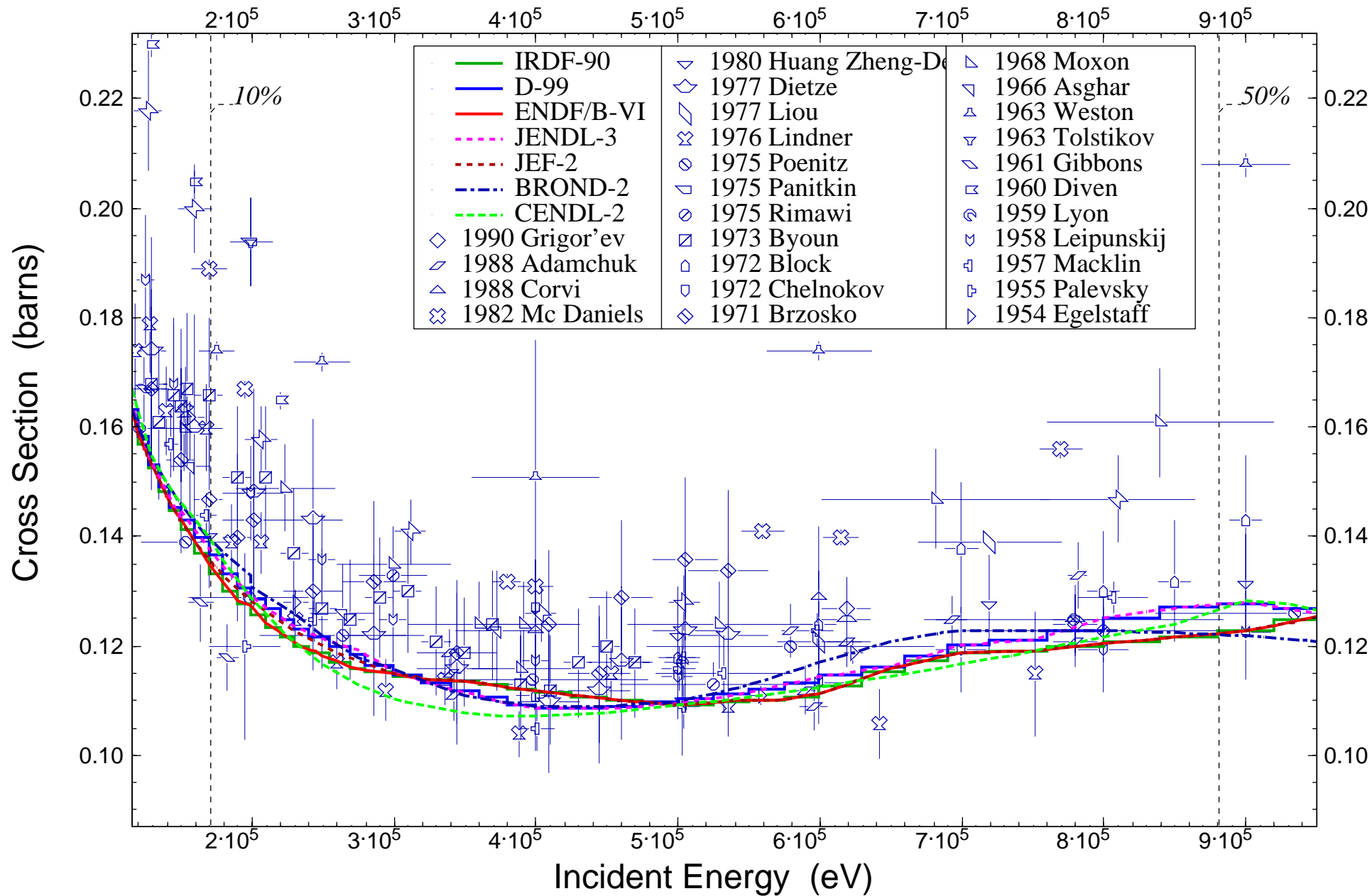
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2.3+04 9.7+05	2	1USAMHG	J,NSE,110,282	9103 E.QUANG,	13190002
2.4+04 5.0+05	9	2GERKFK	J,NSE,33,24	6807 H.O.MENLOVE,	20362002
2.4+04 2.4+04	1	2JPNKTO	J,NST,15,637	7809 N.YAMAMURO,	20432007
1.0+03 1.0+05	18	2UK HAR	R,AERE-R-6074	6906 M.C.MOXON	20465002
1.6+05 6.2+05	4	2UK NPL	J,JNE,27,519	7308 T.B.RYVES,	20942003
5.3+00 1.0+03	120	2UK HAR	J,NP,85,305	6609 M.ASGHAR,	20972002
5.3+00 9.2+03	120	2UK HAR	J,NP,85,305	6609 M.ASGHAR,	20972003
2.9+04 8.4+05	10	2UK HAR	J,JNE,8,197	5901 R.C.HANNA,	21067003
2.5-02 2.5-02	1	2UK HAR	J,JNE,1,92	5408 P.A.EGELSTAFF	21179005
2.5-02 2.5-02	1	2UK HAR	J,JNE,1,234	5502 V.S.CROCKER	21181003
1.3+05 7.6+06	13	2UK ALD	J,JNE,18,481	6409 J.F.BARRY,	21187002
6.0+03 9.7+04	92	2UK HAR	R,NP-17644	6807 M.C.MOXON	21334003
1.4+07 1.5+07	1	2UK ALD	J,PPS,72,505	58 J.L.PERKIN,	21438031
3.2+03 8.0+04	16	2JPNKTO	J,NST,17,(8),582	8008 N.YAMAMURO,	21466006
4.0+05 3.0+06	5	2UK CAV	R,BR-574	45 E.BRODA	21479002
2.0+04 5.6+05	22	2GERKFK	C,75WASH,2,620	7503 R.R.SPENCER,	21698003
2.0+04 5.6+05	20	2GERKFK	C,75WASH,2,620	7503 R.R.SPENCER,	21698005
5.0+05 1.1+06	4	2FR BRC	J,NSE,93,43	86 J.VOIGNIER,	22006049
2.0-03 9.0-02	144	2ZZZGEL	C,88MITO,,127	88 F.CORVI,	22115002
4.0+05 4.0+05	1	3POLWWA	J,APP/B,2,489	71 J.S.BRZOSKO,	30159029
2.4+04 3.0+04	2	3DDRROS 4ZZZDUB	R,ZFK-341	7709 K.DIETZE	30460002
1.4+07 1.4+07	1	3CPRAEP	S,LBL-11118,243	8008 HUANG ZHENG-DE,	30583003
2.4+04 2.4+04	1	4CCPFEI	J,AE,20,(5),431	6605 V.P.KOROLEVA,	40074006
2.0+02 3.5+04	26	4CCPFEI	R,YFI-13,6	72 V.B.CHELNOKOV,	40105008
1.2+06 4.0+06	11	4CCPFEI	J,AE,33,782	7209 JU.G.PANITKIN,	40121002
5.0+06 2.0+07	7	4CCPFEI	J,AE,33,825	7210 JU.G.PANITKIN,	40177002
2.4+04 7.0+06	36	4CCPFEI	J,AE,33,825	7210 JU.G.PANITKIN,	40177003
2.0+05 2.0+05	1	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244042
4.0+06 4.0+06	1	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244060
2.0+05 2.0+05	1	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244084
2.7+06 4.0+06	2	4RUSFEI	C,58GENEVA,15,50(2219)	5809 A.I.LEIPUNSKIJ,	40244104
3.0+04 3.0+04	1	4CCPFEI	J,AE,39,17	7507 JU.G.PANITKIN,	40431002
2.0+02 3.0+04	19	4CCPKUR	C,77KIEV,2,192	7704 JY.V.ADAMCHUK,	40561002
1.5+04 1.7+05	10	4CCPFEI	J,AE,15,(5),414	63 V.A.TOLSTIKOV,	40803003
3.4+05 1.4+06	17	4CCPFEI	J,AE,65,(6),348	8811 N.N.BULEEVA,	40969005
6.2+05 7.8+05	2	4CCPFEI	J,AE,65,(6),348	8811 N.N.BULEEVA,	40969006
6.2+05 7.8+05	2	4CCPFEI	J,AE,65,(6),348	8811 N.N.BULEEVA,	40969007
1.0+02 5.0+04	22	4RUSKUR	J,AE,65,(5),356	8811 YU.V.ADAMCHUK,	40987003
1.0+01 4.7+04	11	4RUSKUR	J,AE,65,(5),356	8811 YU.V.ADAMCHUK,	40987004

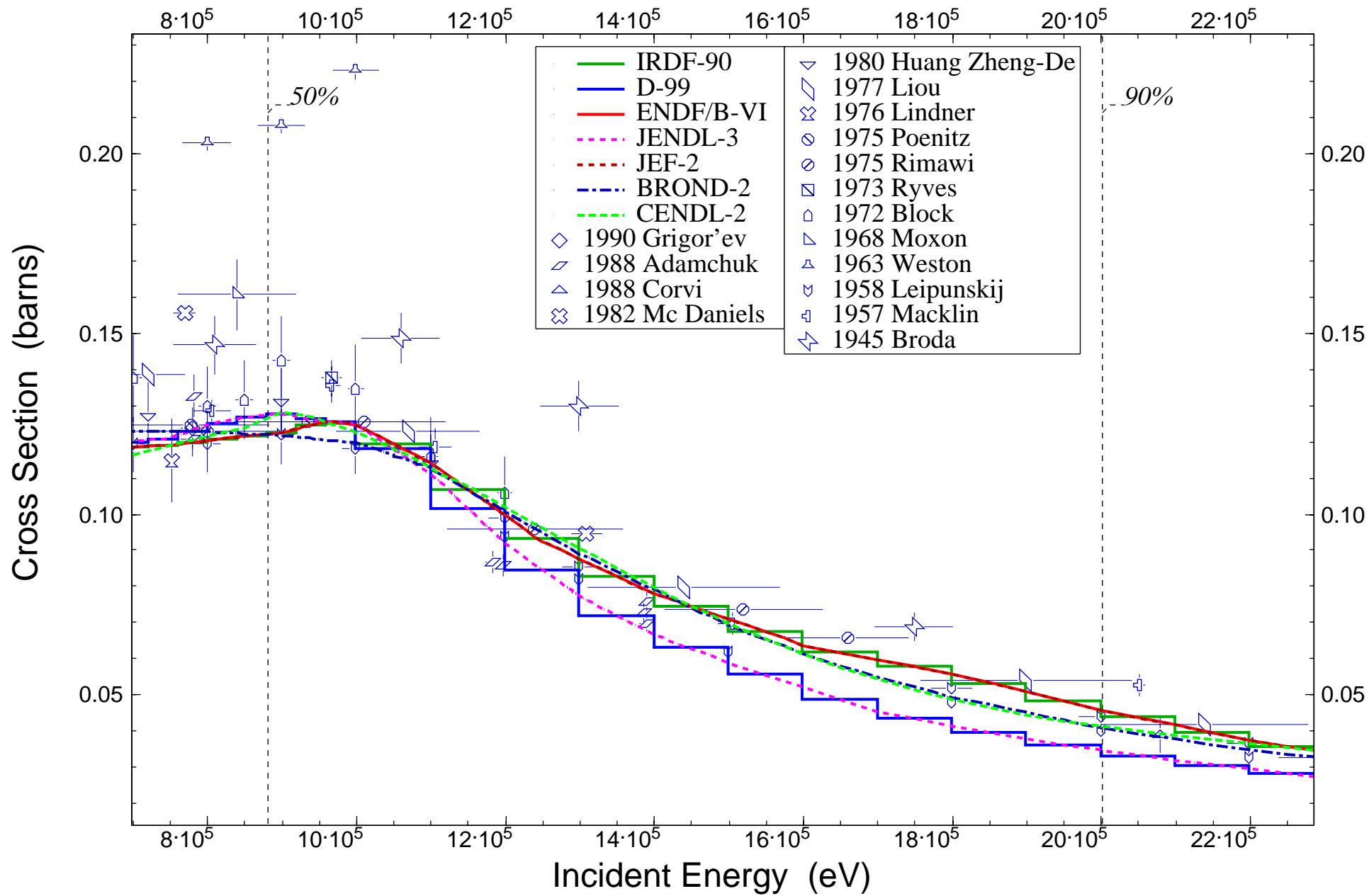
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