

63-Eu-151 (n, γ) 63-Eu-152

Abundance (%) = 47.81 ± 0.03

Q = 6.30677 MeV	$E_{thr} = 0.0$	
$T_{1/2} = 13.542$ y 10		
$E_{\gamma} = 121.7825 \pm 0.0021$ keV	$I_{\gamma} = 28.42 \pm 0.36$	EC+ β^+
$E_{\gamma} = 244.6989 \pm 0.0010$ keV	$I_{\gamma} = 7.49 \pm 0.13$	EC+ β^+
$E_{\gamma} = 443.976 \pm 0.005$ keV	$I_{\gamma} = 2.776 \pm 0.064$	EC+ β^+
$E_{\gamma} = 778.903 \pm 0.006$ keV	$I_{\gamma} = 12.96 \pm 0.12$	β^-
$E_{\gamma} = 867.388 \pm 0.008$ keV	$I_{\gamma} = 4.153 \pm 0.085$	EC+ β^+
$E_{\gamma} = 964.131 \pm 0.009$ keV	$I_{\gamma} = 14.34 \pm 0.20$	EC+ β^+
$E_{\gamma} = 1112.116 \pm 0.017$ keV	$I_{\gamma} = 13.54 \pm 0.20$	EC+ β^+
$E_{\gamma} = 1408.011 \pm 0.014$ keV	$I_{\gamma} = 20.88 \pm 0.11$	EC+ β^+

$T_{1/2} = 9.274$ h 9		
$E_{\gamma} = 121.78 \pm 0.03$ keV	$I_{\gamma} = 7.2 \pm 1.1$	EC+ β^+
$E_{\gamma} = 344.31 \pm 0.03$ keV	$I_{\gamma} = 24.4 \pm 0.41$	β^-
$E_{\gamma} = 841.63 \pm 0.04$ keV	$I_{\gamma} = 14.6 \pm 2.1$	EC+ β^+
$E_{\gamma} = 963.37 \pm 0.04$ keV	$I_{\gamma} = 12.0 \pm 1.7$	EC+ β^+

$T_{1/2} = 96.0$ m 1		
$E_{\gamma} = 89.847 \pm 0.006$ keV	$I_{\gamma} = 69.93 \pm 0.20$	IT

D-99 (JENDL/D-99) - eval. - Mar 1990 JNDC FR Nuclear Data W.G.
 ENDF/B-VI - eval. - Apr 1986 P. Young, E. Arthur.
 JENDL-3.2 - eval. - Mar 1989 T. Asami, JNDC FP Nuclear Data W.G.
 JEF-2 - eval. - Jun 1982 H. Gruppelaar, H. Rieffe.

Tabl. 1

U-235				
	D-99	ENDF/B-VI	JENDL-3	JEF-2
10%	1.00E-01	9.60E-02	1.00E-01	1.00E-01
50%	5.75E-01	6.30E-01	5.75E-01	6.60E-01
90%	1.90	2.20	1.91	1.80
ACS	3.85E-01	3.62E-01	3.86E-01	4.66E-01

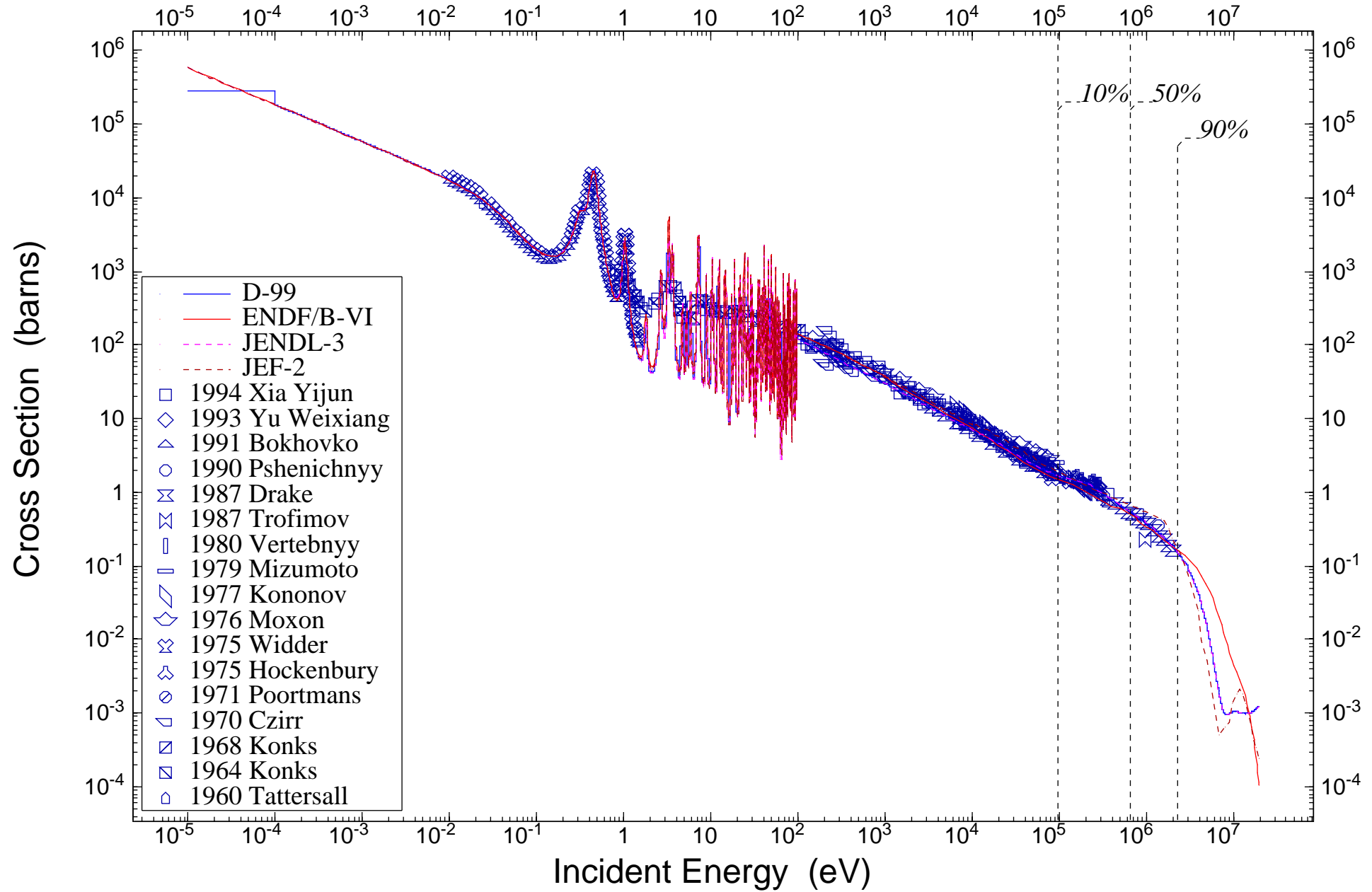
Tabl. 2

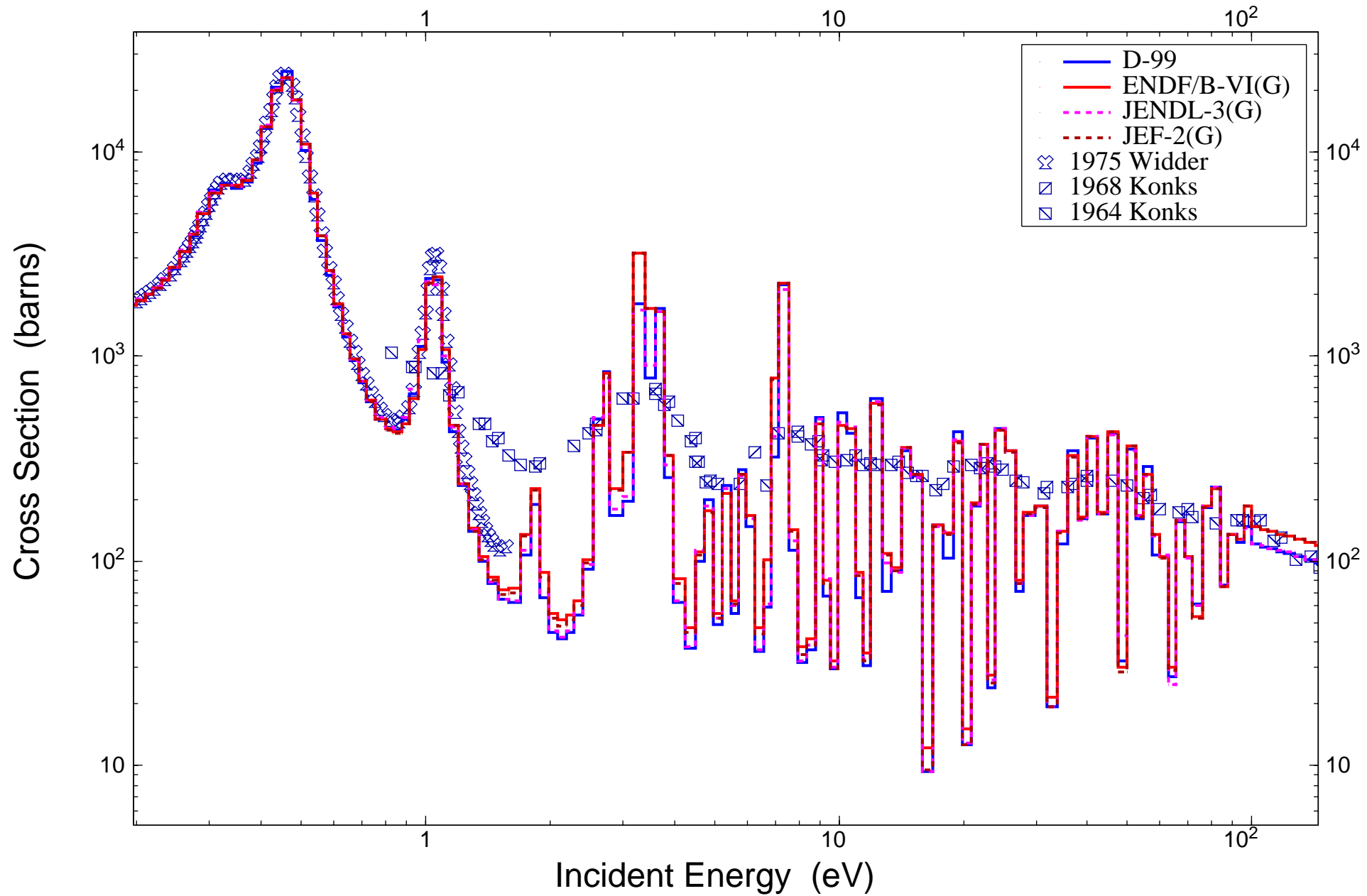
Cf-252				
	D-99	ENDF/B-VI	JENDL-3	JEF-2
10%	1.10E-01	1.10E-01	1.13E-01	1.15E-01
50%	6.00E-01	6.60E-01	6.00E-01	6.90E-01
90%	2.00	2.40	2.00	1.80
ACS	3.60E-01	3.40E-01	3.60E-01	4.36E-01

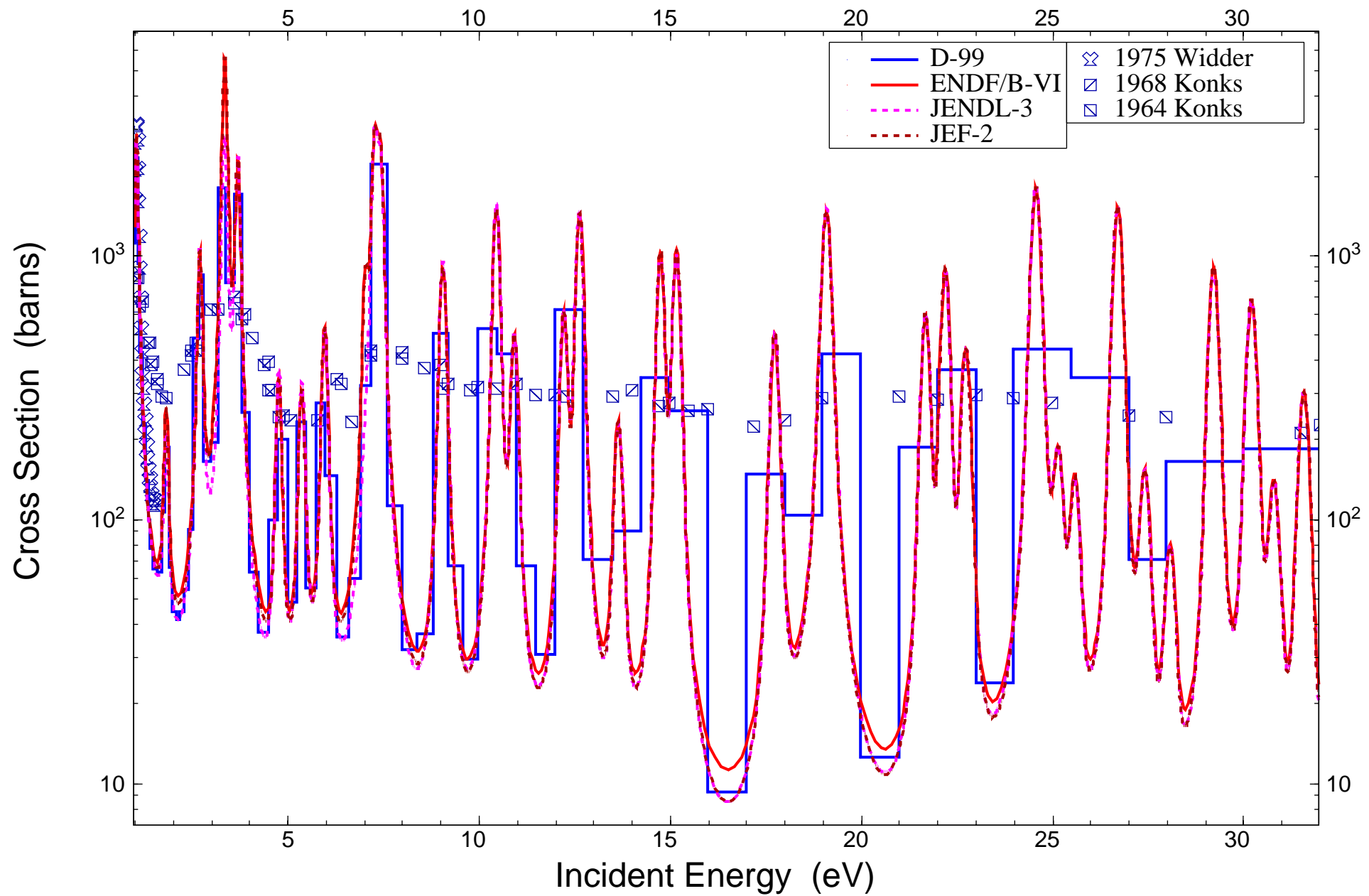
Tabl. 3

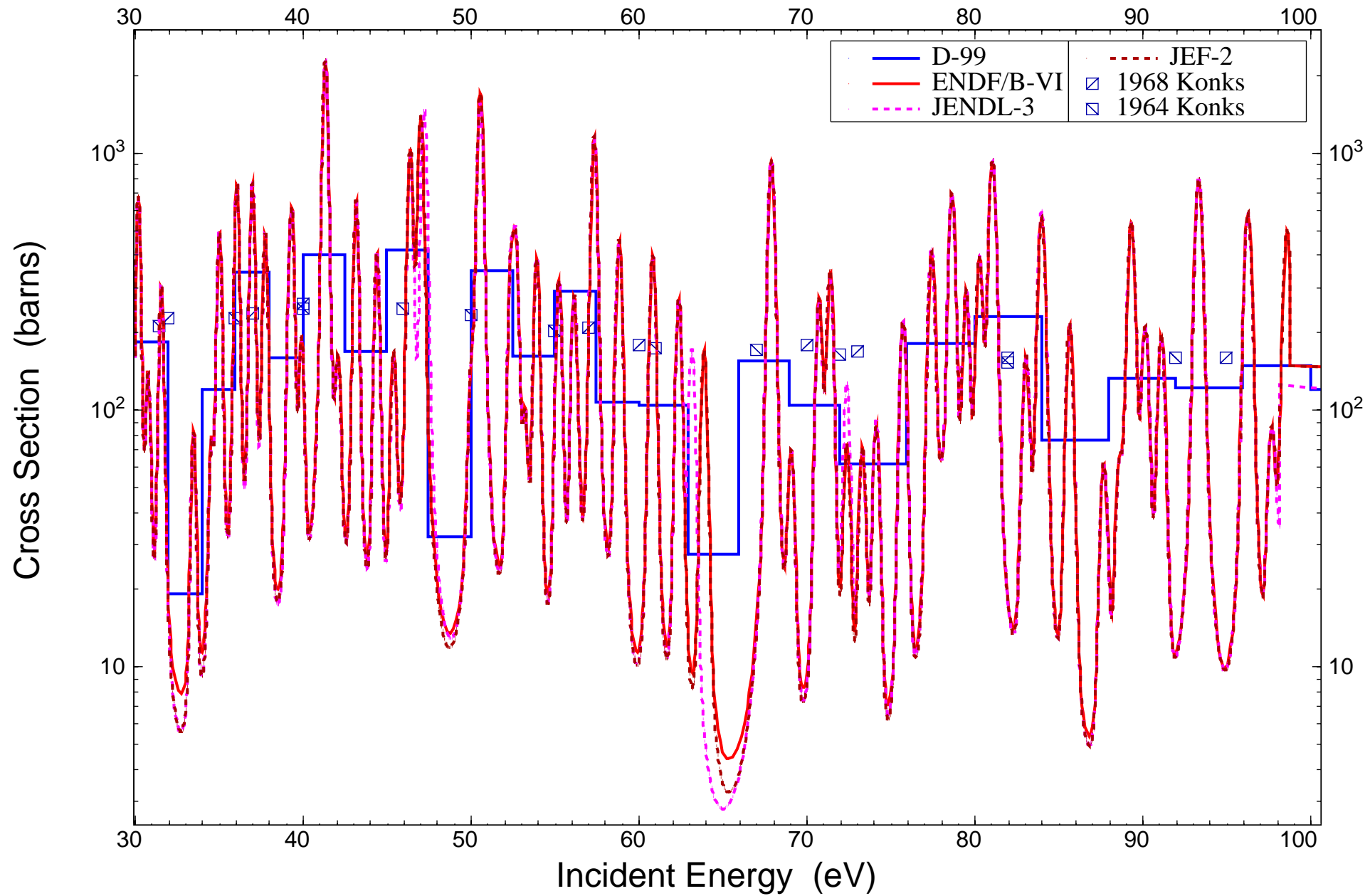
1.4+06	1.4+06	1	4CCPIJI	J,YF,51,(3),621	1990 V.A.PSHENICHNYY,	41038009
6.3+03	3.0+05	566	1USARPI	C,75WASH,2,905	1975 R.W.HOCKENBURY,	10435002
3.0+03	1.0+05	23	2JPNJAE	J,NST,16,(10),711	1979 M.MIZUMOTO,	21293002
5.0+03	3.5+05	75	4RUSFEI	R,YK-22,29	1977 V.N.KONONOV,	40520014
3.0+03	2.2+06	36	1USAORL	J,NSE,95,189	1987 D.M.DRAKE,	12878002
1.0-02	1.6+00	271	2SWTWUR	R,EIR-217	1975 F.WIDDER	20437006
2.0+03	2.0+03	1	4UKRIJI	J,YK,1/36,32	1980 V.P.VERTEBNYY,	40729029
8.3-01	4.1+04	91	4ZZZDUB	R,JINR-1845,100	1964 V.A.KONKS,	40819004
1.0+02	1.0+05	27	2UK HAR	J,ANE,3,399	1976 M.C.MOXON,	20489003
2.5-02	2.5-02	1	2BLGMOL	J,NP/A,172,489	1971 F.POORTMANS,	20221004
8.4-01	4.2+04	89	4ZZZDUB	J,YF,7,(3),493	1968 V.A.KONKS,	40362013

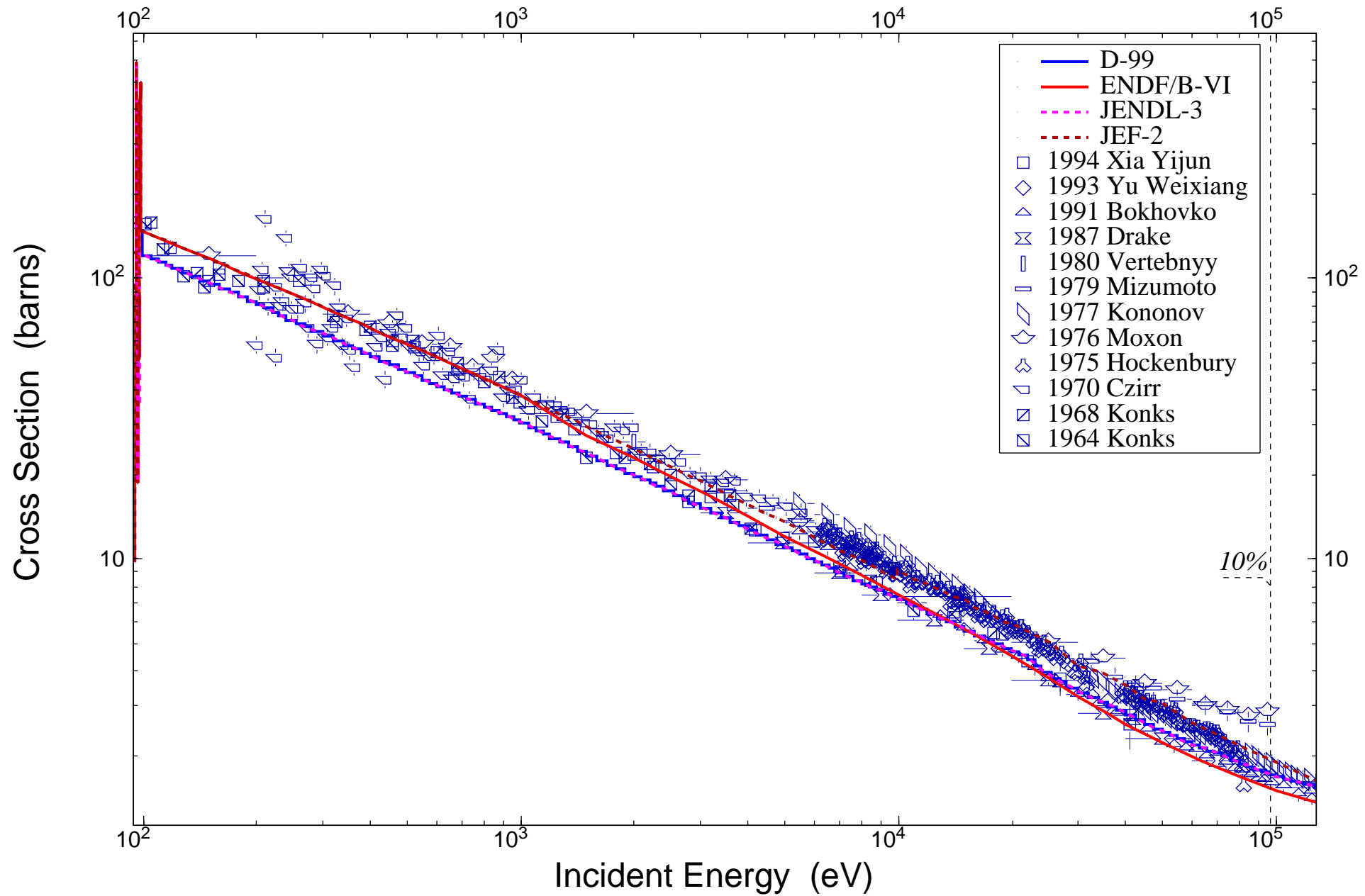
		4RUSLEB			
2.5-02 2.5-02	1	4CCPIJI	J,IZV,54,(5),1006	1990 V.I.GAVRILYUK,	41104005
2.0+02 1.3+04	98	1USALRL	R,UCRL-50804	1970 J.B.CZIRR	10169006
2.2+04 1.1+06	8	3CPRSIU	C,94GATLIN,1,251	1994 XIA YIJUN,	32623004
5.0+03 4.0+05	57	4RUSFEI	R,FEI-2168-91	1991 M.V.BOKHOVKO,	41148004
3.6+04 1.1+06	2	3CPRAEP	J,CNP,15,(1),71	1993 YU WEIXIANG,	32615004
2.5-02 2.5-02	1	2UK HAR	J,JNE/A,12,32	1960 R.B.TATTERSALL,	20638050
1.0+06 1.0+06	1	4CCPRI	C,87KIEV,3,331	1987 YU.N.TROFIMOV	41001024

$^{151}\text{Eu}(n,\gamma)^{152}\text{Eu}$ 

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