

## 57-La-139 (n, $\gamma$ ) 57-La-140

Q = 5.16102 Mev	$E_{thr} = 0.0$	
$T_{1/2} = 1.6781d$	3	
E = 328.762 $\pm$ 0.008 keV	I = 20.32 $\pm$ 0.29	$\beta^-$
E = 487.021 $\pm$ 0.012 keV	I = 45.51 $\pm$ 0.57	$\beta^-$
E = 815.772 $\pm$ 0.019 keV	I = 23.28 $\pm$ 0.19	$\beta^-$

ENDF/B-VI	- eval. - Feb 1980 R. Schenter, F. Schmittroth.
JENDL-3.2	- eval. - Mar 1990 JNDC FP Nuclear Data W. G.
JEF-2	- eval. - Jul 1983 H. Gruppelaar, E. Menapace.

**Tabl. 1**

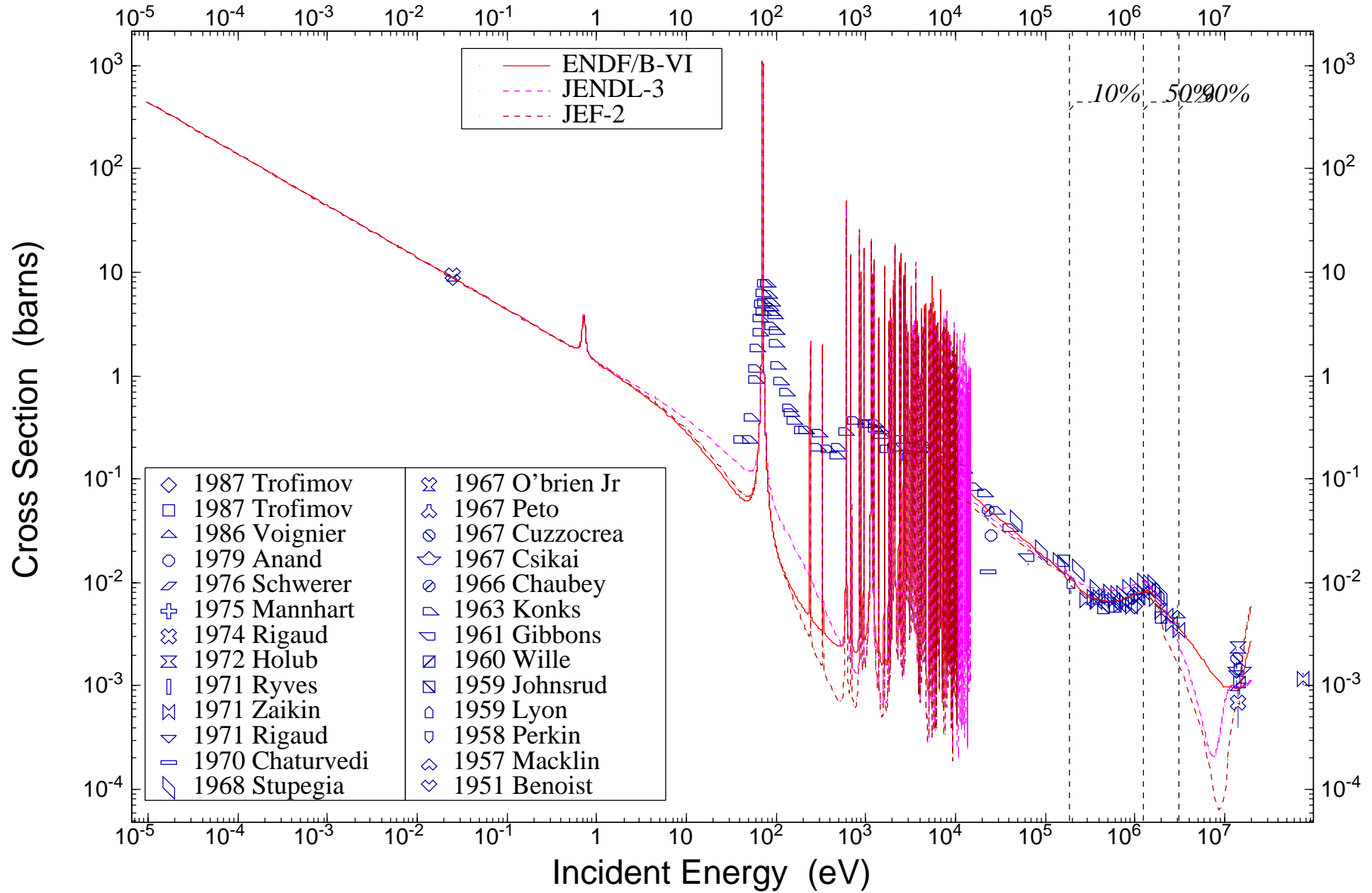
U-235			
	ENDF B/-VI	JENDL-3	JEF-2
10%	1.81E-01	2.06E-01	1.70E-01
50%	1.20	1.10	1.00
90%	3.00	2.40	2.20
<b>ACS</b>	<b>6.35E-03</b>	<b>6.81E-03</b>	<b>5.27E-03</b>

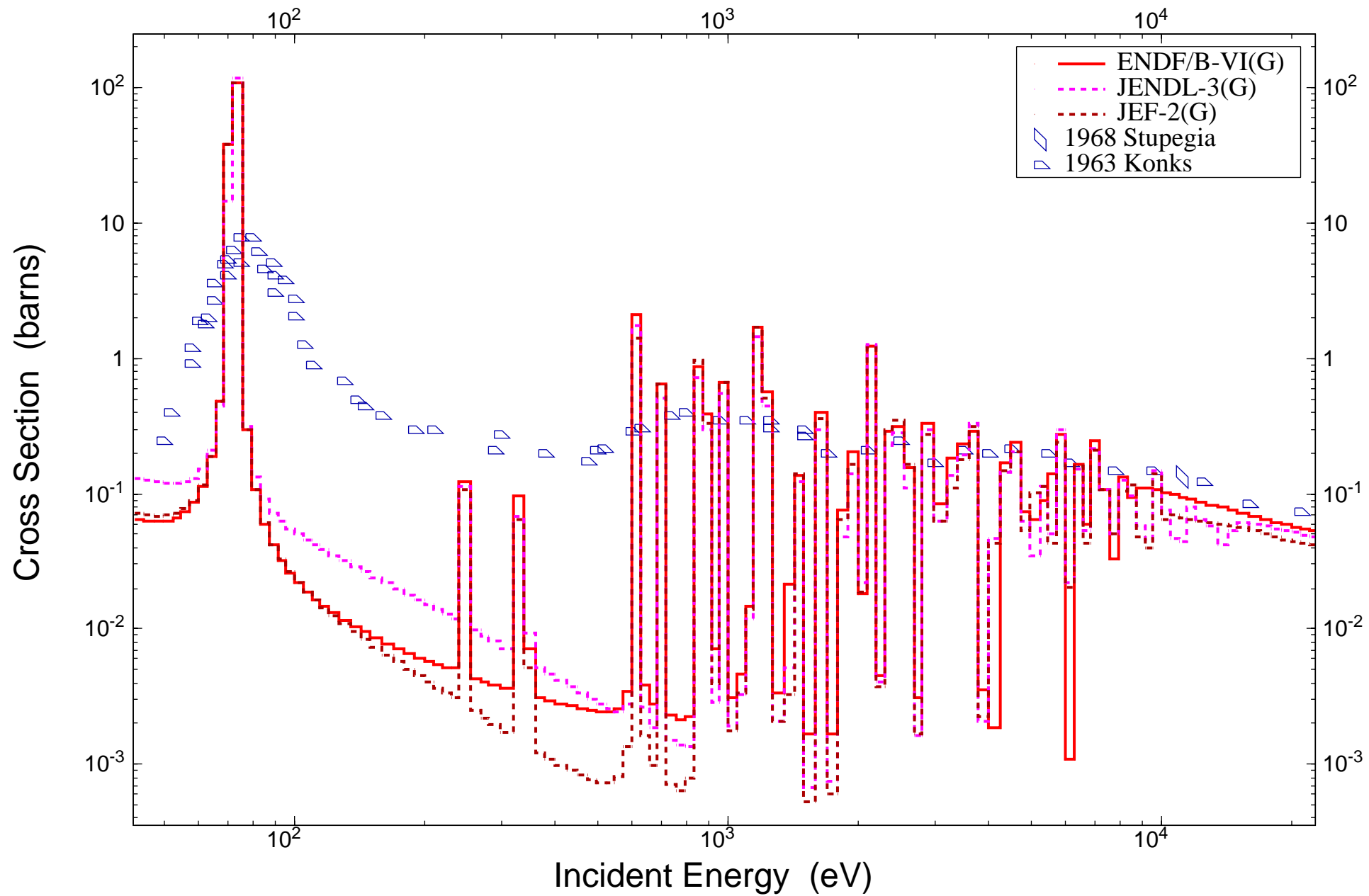
**Tabl. 2**

Cf-252			
	ENDF B/-VI	JENDL-3	JEF-2
10%	1.70E-01	2.00E-01	1.66E-01
50%	1.20	1.10	1.06
90%	2.80	2.33	2.10
<b>ACS</b>	<b>6.54E-03</b>	<b>7.02E-03</b>	<b>5.44E-03</b>

**Tabl. 3**

5.0+05	3.0+06	4	2FR BRC	J,NSE,93,43	1986 J.VOIGNIER,	22006008
1.5+07	1.5+07	1	3HUNDEB	J,NP/A,95,229	1967 J.CSIKAI,	30067014
2.4+04	2.4+04	1	3INDMUA	J,PR,152,1055	1966 A.K.CHAUBEY,	30079028
4.0+01	4.0+04	66	4CCPLEB	J,ZET,46,(1),80	1963 V.A.KONKS,	40799002
2.4+04	2.4+04	1	1USAORL	J,PR,107,504	1957 R.L.MACKLIN,	11399035
2.0+06	2.0+06	1	4CCPRI	J,YK,,(4)	1987 YU.N.TROFIMOV	40975020
2.5-02	2.5-02	1	2FR FAR	J,JPR,12,584	1951 P.BENOIST,	21420006
1.7+05	2.0+06	4	1USAWIS	J,PR,116,927	1959 A.E.JOHNDRUD,	11675017
1.5+07	1.5+07	1	1USAARK	J,PR,118,242	1960 R.G.WILLE,	12033008
3.0+06	3.0+06	1	3HUNDEB	J,JNE,21,797	1967 G.PETO,	30031018
1.9+05	2.0+05	1	1USAORL	J,PR,114,1619	1959 W.S.LYON,	11407025
1.1+04	2.0+06	19	1USAANL	J,JNE,22,267	1968 D.C.STUPEGIA,	11624007
2.5-02	2.5-02	1	2GERMUN	J,ZP/A,272,273	1975 W.MANNHART	20610004
1.4+07	1.4+07	1	3YUGRBZ	R,LNS-4-72	1972 E.HOLUB,	30145012
1.4+07	1.5+07	1	2UK ALD	J,PPS,72,505	1958 J.L.PERKIN,	21438020
2.5-02	2.5-02	1	1USAORL	J,JIN,29,584	1967 H.A.O'BRIEN JR,	10085003
2.5+04	2.5+04	1	3INDTRM	J,NC/A,50,274	1979 R.P.ANAND,	30390018
2.4+04	2.4+04	1	3INDBHU	C,70MADURAI,2,615	1970 S.N.CHATURVEDI,	30493008
3.0+04	6.5+04	2	1USAORL	J,PR,122,182	1961 J.H.GIBBONS,	11329038
1.4+07	1.4+07	1	2ITYNAP	J,NC/B,52,(2),476	1967 P.CUZZOCREA,	21289006
2.0+05	7.6+07	21	4UKRIJI	J,UZF,16,(7),1205	1971 G.G.ZAIKIN,	40255004
1.4+07	1.4+07	1	2FR BOR	J,NP/A,176,545	1971 F.RIGAUD,	20533003
1.5+07	1.5+07	1	2FR BOR	J,NSE,55,17	1974 F.RIGAUD,	20543008
1.5+07	1.5+07	1	2AUSIRK	J,NP/A,264,105	1976 O.SCHWERER,	20670014
2.5-02	2.5-02	1	2UK NPL	J,JNE,25,129	1971 T.B.RYVES,	20791014
1.0+06	1.0+06	1	4CCPRI	C,87KIEV,3,331	1987 YU.N.TROFIMOV	41001017

$^{139}\text{La}(n,\gamma)^{140}\text{La}$ 

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