

## 59-Pr-141 (n, 2n) 59-Pr-140

Q = -9.39736 MeV	E <sub>thr</sub> = 9.46463 MeV
T <sub>1/2</sub> = 3.39 m	
E <sub>γ</sub> = 1596.1 ± 0.2 keV	I <sub>γ</sub> = 0.50 ± 0.04      EC+β <sup>+</sup>
E <sub>γ</sub> = 306.9 ± 0.5 keV	I <sub>γ</sub> = 0.151 ± 0.019      EC+β <sup>+</sup>

RRDF-98	- eval. - Jan 1994 K. Zolotarev, V. Manokhin, A. Pashchenko.
ENDF/B-VI	- eval. - Feb 1980 R. Schenter, F. Schmittroth, A. Prince et al.
JENDL-3.2	- eval. - Mar 1990 JNDC FP Nuclear Data W.G.
JEF-2	- eval. - Jul 1982 H. Grupelaar, E. Menapace.

**Tabl. 1**

U-235				
	RRDF-98	ENDF/B-VI	JENDL-3	JEF-2
10%	10.30	10.40	10.30	10.10
50%	11.60	11.50	11.50	11.30
90%	13.90	13.70	13.80	13.60
<b>ACS</b>	<b>9.66E-04</b>	<b>1.31E-03</b>	<b>1.03E-03</b>	<b>1.42E-03</b>

**Tabl. 2**

Cf-252				
	RRDF-98	ENDF/B-VI	JENDL-3	JEF-2
10%	10.40	10.40	10.30	10.10
50%	11.70	11.60	11.70	11.50
90%	14.20	14.00	14.20	13.90
<b>ACS</b>	<b>1.94E-03</b>	<b>2.60E-03</b>	<b>2.06E-03</b>	<b>2.79E-03</b>

**Tabl. 3**

1.2+07	1.8+07	20	1USAGEO	J,BAP,8,60(R7)	1963 L.A.RAYBURN	11954003
1.5+07	1.5+07	1	1USAARK	J,PR,118,242	1960 R.G.WILLE,	12033018
1.4+07	1.5+07	1	1USATAM	J,PR,156,1340	1967 M.P.MENON,	12066004
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	1973 J.ARAMINOWICZ,	30264040
1.5+07	1.5+07	1	1USAARK	T,BARI	1971 A.BARI	10431046
1.3+07	1.9+07	10	2GERHAM	J,NP/A,115,309	1968 M.BORMANN,	20834015
1.5+07	1.5+07	1	3INDMUA	J,NP,28,560	1961 C.S.KHURANA,	31247015
1.2+07	1.8+07	8	1USARED	R,NP-11667	1962 D.R.KOEHLER,	11785006
1.4+07	1.5+07	3	3INDBOS	C,69ROORKEE,2,117	1969 A.CHATTERJEE,	30612011
1.5+07	1.5+07	1	1USAARK	J,JIN,37,631	1975 R.A.SIGG,	10477013
1.3+07	1.5+07	5	2JPNJAE	C,97TRIEST,1,635	1997 Y.KASUGAI,	22393010
1.3+07	1.5+07	6	2JPNNAG	S,INDC(JPN)-175/U,171	1995 S.MURAHIRA,	22311008
1.4+07	1.4+07	1	1USAANL	J,PR,122,168	1961 L.A.RAYBURN	11328028
1.2+07	1.8+07	6	1USANRD	J,PR,118,228	1960 J.M.FERGUSON,	11356005
1.4+07	1.4+07	1	2ITYNAP	J,NC/B,52,(2),476	1967 P.CUZZOCREA,	21289012
1.5+07	1.5+07	1	2SF JYV	R,JU-RR-1/1976	1976 M.VALKONEN	20673028
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267	1953 E.B.PAUL,	11274089
1.4+07	1.4+07	1	2ITYBOL	J,NC,26,1328	1962 M.CEVOLANI,	21266013

# $^{141}\text{Pr}(n,2n)^{140}\text{Pr}$

