

$^{141}\text{Pr}(\text{p},\text{n}\gamma)$ 1983Dr10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

E(p)=5.35 MeV.

Measured: γ , $\gamma\gamma$, excitation function at E(p)=3.85-5.35 MeV. ^{141}Nd Levels

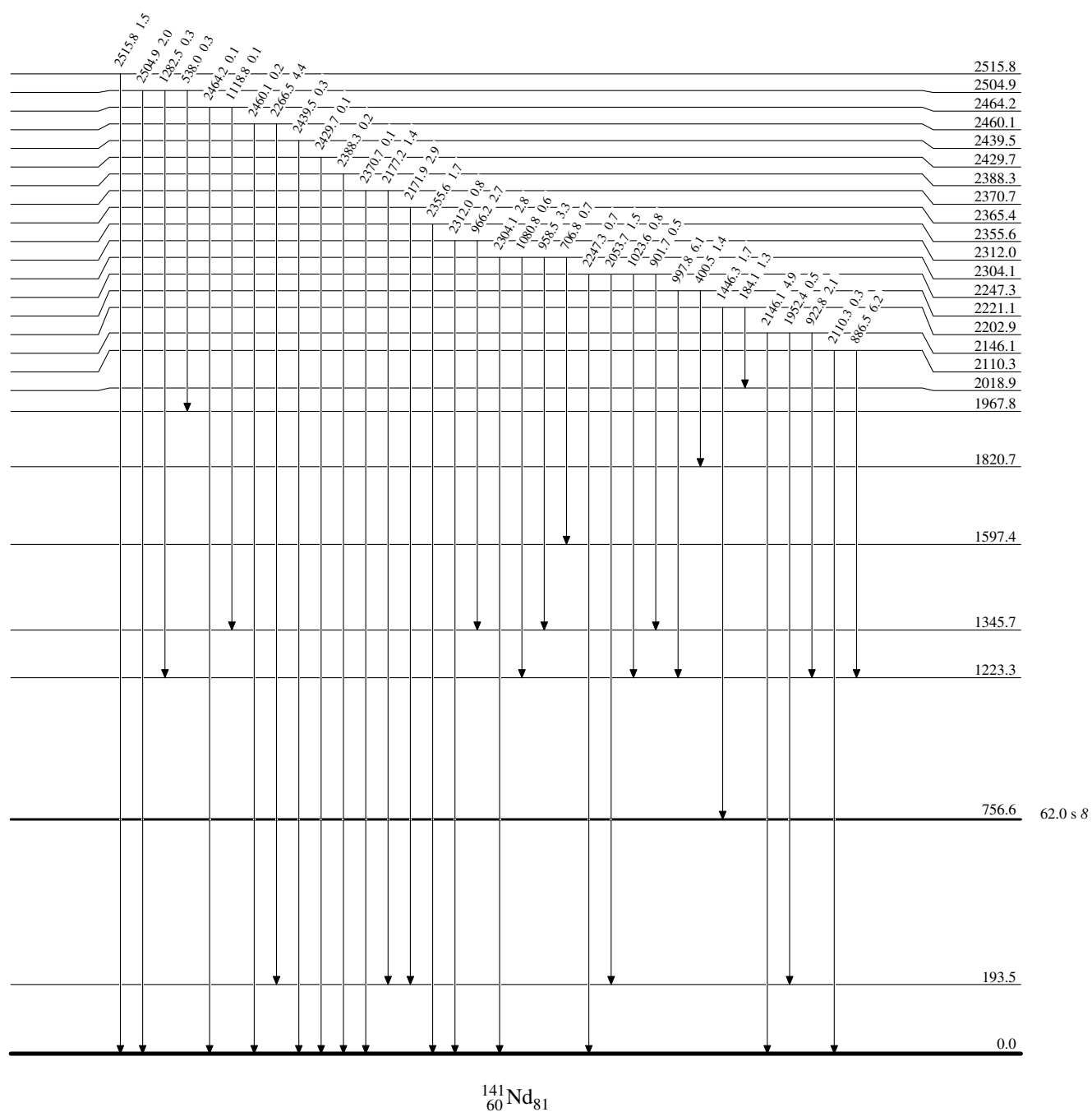
E(level)	$T_{1/2}$	E(level)	E(level)	E(level)
0.0		1715.3	2110.3	2388.3
193.5		1804.6	2146.1	2429.7
756.6	$62.0^{\dagger} \text{ s } 8$	1820.7	2202.9	2439.5
1223.3		1876.2	2221.1	2460.1
1345.7		1890.2	2247.3	2464.2
1403.6		1897.6	2304.1	2504.9
1416.2		1967.8	2312.0	2515.8
1564.8		2018.9	2355.6	
1597.4		2066.7	2365.4	
1670.6		2074.0	2370.7	

 † From Adopted Levels. $\gamma(^{141}\text{Nd})$

E_{γ}	$I_{\gamma}^{\dagger}$	$E_i(\text{level})$	E_f	E_{γ}	$I_{\gamma}^{\dagger}$	$E_i(\text{level})$	E_f	E_{γ}	$I_{\gamma}^{\dagger}$	$E_i(\text{level})$	E_f
184.1	1.3	2202.9	2018.9	1023.6	0.8	2247.3	1223.3	1897.6	35.4	1897.6	0.0
193.5	84.6	193.5	0.0	1029.8	6.6	1223.3	193.5	1952.4	0.5	2146.1	193.5
278.6	0.7	1876.2	1597.4	1080.8	0.6	2304.1	1223.3	1967.8	2.2	1967.8	0.0
299.8	4.8	1897.6	1597.4	1118.8	0.1	2464.2	1345.7	2053.7	1.5	2247.3	193.5
311.8	15.0	1715.3	1403.6	1223.3	100.0	1223.3	0.0	2066.7	4.4	2066.7	0.0
400.5	1.4	2221.1	1820.7	1262.3	6.1	2018.9	756.6	2074.0	4.0	2074.0	0.0
447.3	0.9	1670.6	1223.3	1282.5	0.3	2504.9	1223.3	2110.3	0.3	2110.3	0.0
530.7	4.9	1876.2	1345.7	1345.7	65.5	1345.7	0.0	2146.1	4.9	2146.1	0.0
538.0	0.3	2504.9	1967.8	1371.4	5.4	1564.8	193.5	2171.9	2.9	2365.4	193.5
564.4	0.2	1967.8	1403.6	1403.9	4.8	1597.4	193.5	2177.2	1.4	2370.7	193.5
597.6	3.8	1820.7	1223.3	1446.3	1.7	2202.9	756.6	2247.3	0.7	2247.3	0.0
622.2	10.4	1967.8	1345.7	1564.8	37.0	1564.8	0.0	2266.5	4.4	2460.1	193.5
647.1	67.3	1403.6	756.6	1597.4	14.3	1597.4	0.0	2304.1	2.8	2304.1	0.0
652.8	13.1	1876.2	1223.3	1611.3	0.9	1804.6	193.5	2312.0	0.8	2312.0	0.0
659.6	6.8	1416.2	756.6	1627.5	13.4	1820.7	193.5	2355.6	1.7	2355.6	0.0
674.1	1.4	1897.6	1223.3	1696.7	2.7	1890.2	193.5	2370.7	0.1	2370.7	0.0
706.8	0.7	2304.1	1597.4	1703.9	13.3	1897.6	193.5	2388.3	0.2	2388.3	0.0
886.5	6.2	2110.3	1223.3	1804.6	0.8	1804.6	0.0	2429.7	0.1	2429.7	0.0
901.7	0.5	2247.3	1345.7	1820.7	4.9	1820.7	0.0	2439.5	0.3	2439.5	0.0
922.8	2.1	2146.1	1223.3	1873.2	2.3	2066.7	193.5	2460.1	0.2	2460.1	0.0
958.5	3.3	2304.1	1345.7	1876.2	1.3	1876.2	0.0	2464.2	0.1	2464.2	0.0
966.2	2.7	2312.0	1345.7	1880.5	2.7	2074.0	193.5	2504.9	2.0	2504.9	0.0
997.8	6.1	2221.1	1223.3	1890.2	2.4	1890.2	0.0	2515.8	1.5	2515.8	0.0

 † Relative I_{γ} .

 $I_\gamma < 2\% \times I_\gamma^{\max}$
 $I_\gamma < 10\% \times I_\gamma^{\max}$
 $I_\gamma > 10\% \times I_\gamma^{\max}$



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Level Scheme (continued)

Intensities: Type not specified

