

¹⁴¹Pr(n,γ) E=215.6 eV [1969MuZT,1969Be55](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, D. Symochko(a), M. Fadil(b), and J. K. Tuli		NDS 112, 1949 (2011)	1-Jun-2010

Measured γ from neutron resonance with J^π=3⁺.

¹⁴²Pr Levels

E(level) [†]	J ^π #	I _γ /E _γ ^{3‡}	Comments
0.0	2 ⁻	0.21 15	
17.8	3 ⁻	0.24 15	
72.3	4 ⁻	0.45 17	
144.6	4 ⁻	0.98 20	
176.9	(3) ⁻	1.23 21	
200.4	(2) ⁻	2.12 24	
637.1	4 ⁻	1.01 26	
702.3		1.07 28	E(level): may include level 705.2.
747.0		0.70 28	
790.3	2 ⁻ ,3 ⁻		
822.6	2 ⁻ ,3 ⁻		
1120.2	3 ⁻ ,4 ⁻		
1151.0	2 ⁻ ,3 ⁻		
1346.6			
1393.8			
1402.5			
1470.6			
1495.5			
1566.5			
1590.9			

[†] Adopted energies of the levels populated by direct primary γ transitions; E_γ's are not given.

[‡] Relative reduced partial radiation widths (I_γ/E_γ³) with assumption of dipole transitions ([1969Be55](#)).

Adopted values.