

$^{146}\text{Nd}(e,e')$ 1993Sa07

Type	Author	History	Citation	Literature Cutoff Date
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1993Sa07: $^{146}\text{Nd}(e,e')$, $E=112\text{-}450$ MeV, momentum-transfer range $0.5\text{-}2.8$ fm $^{-1}$; measured longitudinal form factors. ^{146}Nd ; deduced levels J^π , $B(\lambda)$. Microscopic quasiparticle-phonon model, macroscopic rotation-vibration model, Hartree-Fock-Bogoliubov model calculations, Fourier-Bessel analysis.

1971Ma27: $^{146}\text{Nd}(e,e)$, (e,e') , $E=40,60$ MeV; measured $\sigma(\theta)$. ^{146}Nd ; deduced levels J^π , $B(E2)$.

 ^{146}Nd Levels

E(level) †	J^π †	Comments
0.0	0^+	
453 6	2^+	$B(E2)\uparrow=0.691\ 5$ (1988Ah01); $B(E2)\uparrow=0.71\ 10$ (1971Ma27); $B(E2)\uparrow=0.616\ 28$ (1974MaYP)
1044 10	4^+	$B(E4)\uparrow=0.0150\ 26$
1190 6	3^-	$B(E3)\uparrow=0.352\ 21$
1303	2^+	
1379 6	1^-	$B(E1)\uparrow=4.51\times 10^{-5}\ 27$
1470	2^+	$B(E2)\uparrow=0.068\ 5$
1517 6	5^-	$B(E5)\uparrow=0.0264\ 29$
1747 9	4^+	$B(E4)\uparrow=0.0361\ 32$
1789	2^+	
1919	4^+	
1977 9	2^+	$B(E2)\uparrow=0.02$
1987 9	4^+	$B(E4)\uparrow=0.021\ 4$
2030		
2090		
2152		
2198	2^+	
2231	(0^+)	
2275	1^-	
2339 8	3^-	$B(E3)\uparrow=0.051\ 7$
2374		
2437		
2457		
2484		
2530 8	3^-	$B(E3)\uparrow=0.02$
2570	5^-	$B(E5)\uparrow=0.0085$
2622 12	4^+	$B(E4)\uparrow=0.003$
2665 10	2^+	$B(E2)\uparrow=0.0168\ 20$
2690	3^-	$B(E3)\uparrow=0.003$
2709		
2748 9	5^-	$B(E5)\uparrow=0.00293\ 45$
2807	3^-	
2822	3^-	
2850 12	3^-	$B(E3)\uparrow=0.02$
2877 19	5^-	
2915	5^-	$B(E5)\uparrow=0.0047$
2935 10	4^+	$B(E4)\uparrow=0.016$
2976	2^+	$B(E2)\uparrow=0.006$
3000	5^-	$B(E5)\uparrow=0.0027$

† From 1993Sa07.