

^{132}Nd $Z = 60$ $N = 72$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1089.899 (0.024) MeV

Qbeta+ = 3.802 (0.038) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|----------|----------|-----------|-------------|---------------|
| ----- | | | | | |
| S-alpha= | -1.683 | (0.037) | ----- | | |
| 132ND 1 | 0.000 | 0+ | | | 1 94 S 8 |
| 132ND 2 | 0.213 | 2+ | | | 2 133 PS 8 |
| 132ND 3 | 0.611 | 4+ | | | 3 7.62 PS 28 |
| 132ND 4 | | | | 0.824 (2+) | 4 |
| 132ND 5 | 1.022 | 4+ | | | 5 |
| 132ND 6 | | | | 1.118 (3+) | 6 |
| 132ND 7 | 1.133 | 6+ | | | 7 1.59 PS 14 |
| 132ND 8 | | | | 1.388 (4+) | 8 |
| 132ND 9 | | | | 1.633 (6+) | 9 |
| 132ND 10 | 1.712 | 8+ | | | 10 1.04 PS 14 |
| ----- | | | | | |
| 132ND 11 | | | | 1.884 (5-) | 11 |
| 132ND 12 | | | | 2.179 (8+) | 12 |
| 132ND 13 | | | | 2.226 (7-) | 13 |
| 132ND 14 | 2.312 | 10+ | | | 14 2 PS LT |
| 132ND 15 | | | | 2.346 (6-) | 15 |
| 132ND 16 | | | | 2.691 (9-) | 16 |
| 132ND 17 | | | | 2.698 (8-) | 17 |
| 132ND 18 | | | | 2.850 (10+) | 18 |
| 132ND 19 | | | | 2.948 (12+) | 19 |
| 132ND 20 | | | | 2.961 (9-) | 20 |
| ----- | | | | | |
| 132ND 21 | | | | 3.110 (10-) | 21 |
| 132ND 22 | | | | 3.256 (11-) | 22 |
| 132ND 23 | | | | 3.288 (12+) | 23 |
| 132ND 24 | | | | 3.498 (11-) | 24 |
| 132ND 25 | | | | 3.634 (14+) | 25 |
| 132ND 26 | | | 3.659 12- | | 26 |
| 132ND 27 | | | | 3.848 (14+) | 27 |
| 132ND 28 | | | | 3.907 (13-) | 28 |
| 132ND 29 | | | | 4.164 (13-) | 29 |
| 132ND 30 | | | | 4.304 (14-) | 30 |
| ----- | | | | | |
| 132ND 31 | | | | 4.373 (16+) | 31 |
| 132ND 32 | | | | 4.381 (16+) | 32 |
| S-p = | 4.414 | (0.053) | ----- | | |
| 132ND 33 | | | | 4.578 (16+) | 33 |
| 132ND 34 | | | | 4.620 (15-) | 34 |
| 132ND 35 | | | | 4.906 (15-) | 35 |

| | | | | | | | | |
|-------|----|-------|-------|--------|--------|---------|----|--|
| 132ND | 36 | | | | 4.996 | (16-) | 36 | |
| 132ND | 37 | | | | 5.185 | (18+) | 37 | |
| 132ND | 38 | | | | 5.368 | (17-) | 38 | |
| 132ND | 39 | | | | 5.431 | (18+) | 39 | |
| 132ND | 40 | | | | 5.670 | (17-) | 40 | |
| ----- | | | | | | | | |
| 132ND | 41 | | | | 5.733 | (18-) | 41 | |
| 132ND | 42 | | | | 6.068 | (20+) | 42 | |
| 132ND | 43 | | | | 6.162 | (18+) | 43 | |
| 132ND | 44 | | | | 6.165 | (19-) | 44 | |
| 132ND | 45 | | | | 6.221 | (17,18) | 45 | |
| 132ND | 46 | | | | 6.337 | (18+) | 46 | |
| 132ND | 47 | | 6.379 | 20+ | | | 47 | |
| 132ND | 48 | | | | 6.434 | (19-) | 48 | |
| 132ND | 49 | | | | 6.556 | (20-) | 49 | |
| S-2p | = | 6.581 | (| 0.037) | ----- | | | |
| 132ND | 50 | | | | 6.587 | (18,19) | 50 | |
| ----- | | | | | | | | |
| 132ND | 51 | | | | 6.991 | (20+) | 51 | |
| 132ND | 52 | | | | 7.013 | (22+) | 52 | |
| 132ND | 53 | | | | 7.015 | (19,20) | 53 | |
| 132ND | 54 | | | | 7.053 | (21-) | 54 | |
| 132ND | 55 | | | | 7.069 | (20+) | 55 | |
| 132ND | 56 | | | | 7.231 | (21-) | 56 | |
| 132ND | 57 | | | | 7.413 | (22+) | 57 | |
| 132ND | 58 | | | | 7.435 | (20,21) | 58 | |
| 132ND | 59 | | | | 7.487 | (22-) | 59 | |
| 132ND | 60 | | | | 7.847 | (22+) | 60 | |
| ----- | | | | | | | | |
| 132ND | 61 | | | | 7.877 | (21,22) | 61 | |
| 132ND | 62 | | | | 8.015 | (24+) | 62 | |
| 132ND | 63 | | | | 8.045 | (23-) | 63 | |
| 132ND | 64 | | | | 8.080 | (23-) | 64 | |
| 132ND | 65 | | | | 8.333 | (22,23) | 65 | |
| 132ND | 66 | | | | 8.526 | (24-) | 66 | |
| 132ND | 67 | | | | 8.527 | (24+) | 67 | |
| 132ND | 68 | | 8.724 | 24+ | | | 68 | |
| 132ND | 69 | | | | 8.806 | (23,24) | 69 | |
| 132ND | 70 | | | | 8.981 | (25-) | 70 | |
| ----- | | | | | | | | |
| 132ND | 71 | | | | 9.077 | (26+) | 71 | |
| 132ND | 72 | | | | 9.146 | (25-) | 72 | |
| 132ND | 73 | | | | 9.291 | (24,25) | 73 | |
| 132ND | 74 | | | | 9.663 | (26-) | 74 | |
| 132ND | 75 | | | | 9.667 | (26+) | 75 | |
| 132ND | 76 | | | | 9.719 | (26+) | 76 | |
| 132ND | 77 | | | | 9.798 | (25,26) | 77 | |
| 132ND | 78 | | | | 9.948 | (27-) | 78 | |
| 132ND | 79 | | | | 10.207 | (28+) | 79 | |
| 132ND | 80 | | | | 10.323 | (26,27) | 80 | |

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|-----------|---|--------|----------|--------|---------|-----|
| 132ND 81 | | | | 10.341 | (27-) | 81 |
| 132ND 82 | | | | 10.676 | (28+) | 82 |
| 132ND 83 | | | | 10.863 | (27,28) | 83 |
| 132ND 84 | | | | 10.892 | (28-) | 84 |
| 132ND 85 | | | | 10.982 | (29-) | 85 |
| 132ND 86 | | | | 10.983 | (28+) | 86 |
| 132ND 87 | | | | 11.411 | (30+) | 87 |
| 132ND 88 | | | | 11.419 | (28,29) | 88 |
| 132ND 89 | | | | 11.599 | (29-) | 89 |
| ----- | | | | | | |
| S-n | = | 11.729 | (0.037) | ----- | | |
| 132ND 90 | | | | 11.746 | (30+) | 90 |
| ----- | | | | | | |
| 132ND 91 | | | | 11.996 | (29,30) | 91 |
| 132ND 92 | | | | 12.091 | (31-) | 92 |
| 132ND 93 | | | | 12.211 | (30-) | 93 |
| 132ND 94 | | | | 12.310 | (30+) | 94 |
| 132ND 95 | | | | 12.582 | (30,31) | 95 |
| 132ND 96 | | | | 12.693 | (32+) | 96 |
| 132ND 97 | | | | 12.883 | (32+) | 97 |
| 132ND 98 | | | | 13.196 | (31,32) | 98 |
| 132ND 99 | | | | 13.279 | (33-) | 99 |
| 132ND 100 | | | | 13.812 | (32,33) | 100 |
| ----- | | | | | | |
| 132ND 101 | | | | 14.051 | (34+) | 101 |
| 132ND 102 | | | | 14.094 | (34+) | 102 |
| 132ND 103 | | | | 14.464 | (33,34) | 103 |
| 132ND 104 | | | | 14.549 | (35-) | 104 |
| 132ND 105 | | | | 15.111 | (34,35) | 105 |
| 132ND 106 | | | | 15.364 | (36+) | 106 |
| 132ND 107 | | | | 15.507 | (36+) | 107 |
| 132ND 108 | | | | 15.799 | (35,36) | 108 |
| 132ND 109 | | | | 15.905 | (37-) | 109 |
| 132ND 110 | | | | 16.480 | (36,37) | 110 |
| ----- | | | | | | |
| 132ND 111 | | | | 16.720 | (38+) | 111 |
| 132ND 112 | | | | 17.041 | (38+) | 112 |
| 132ND 113 | | | | 17.202 | (37,38) | 113 |
| 132ND 114 | | | | 17.350 | (39-) | 114 |
| 132ND 115 | | | | 17.923 | (38,39) | 115 |
| 132ND 116 | | | | 18.155 | (40+) | 116 |
| 132ND 117 | | | | 18.654 | (40+) | 117 |
| 132ND 118 | | | | 18.676 | (39,40) | 118 |
| 132ND 119 | | | | 18.888 | (41-) | 119 |
| 132ND 120 | | | | 19.441 | (40,41) | 120 |
| ----- | | | | | | |
| 132ND 121 | | | | 19.674 | (42+) | 121 |
| ----- | | | | | | |
| S-p | = | 4.414 | (0.053) | ----- | | |

S-n = 11.729 (0.037)-----
S-2p = 6.581 (0.037)-----
S-2n = 20.972 (0.037)-----
S-alpha= -1.683 (0.037)-----

S+p = -1.271 (0.056)
S+n = -8.978 (0.052)
S+2p = 0.000 (0.000)
S+2n = -20.363 (0.027)
S+alpha = 2.190 (0.027)

gap p = 3.144 (0.077)
gap n = 2.751 (0.064)
gap 2p = 0.000 (0.000)
gap 2n = 0.609 (0.046)
gap alpha = 0.507 (0.046)