

$^{65}\text{Co}$        $Z = 27$        $N = 38$       [link to full NNDC output](#)

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

BE = 562.697 ( 0.002) MeV

Qbeta- = 5.941 ( 0.002) MeV

|      | Energy T | J+ | J- | J-other             | T1/2       |
|------|----------|----|----|---------------------|------------|
| 65CO | 1        |    |    | 0.000 (7/2)-        | 1 1.16 S 3 |
| 65CO | 2        |    |    | 0.883 (3/2-)        | 2          |
| 65CO | 3        |    |    | 1.095 (1/2-)        | 3          |
| 65CO | 4        |    |    | 1.223 (3/2-)        | 4          |
| 65CO | 5        |    |    | 1.441 (5/2-,7/2-)   | 5          |
| 65CO | 6        |    |    | 1.479 (9/2-)        | 6          |
| 65CO | 7        |    |    | 1.625 (5/2-,7/2-)   | 7          |
| 65CO | 8        |    |    | 1.642 (11/2-)       | 8          |
| 65CO | 9        |    |    | 1.959 (1/2-,3/2-)   | 9          |
| 65CO | 10       |    |    | 1.996 (3/2-)        | 10         |
| 65CO | 11       |    |    | 2.183 (1/2-,3/2-)   | 11         |
| 65CO | 12       |    |    | 2.443               | 12         |
| 65CO | 13       |    |    | 2.479 (11/2-)       | 13         |
| 65CO | 14       |    |    | 2.558               | 14         |
| 65CO | 15       |    |    | 2.669 (13/2-)       | 15         |
| 65CO | 16       |    |    | 2.892               | 16         |
| 65CO | 17       |    |    | 2.896               | 17         |
| 65CO | 18       |    |    | 2.926               | 18         |
| 65CO | 19       |    |    | 3.028 (15/2-)       | 19         |
| 65CO | 20       |    |    | 3.271 (15/2-,17/2+) | 20         |

S-p = 11.505 ( 0.005)-----  
 S-n = 7.464 ( 0.020)-----  
 S-2p = 26.876 ( 0.004)-----  
 S-2n = 13.476 ( 0.019)-----  
 S-alpha= 9.868 ( 0.003)-----

S+p = -14.110 ( 0.002)  
 S+n = -5.295 ( 0.014)  
 S+2p = -22.712 ( 0.002)  
 S+2n = -12.279 ( 0.007)  
 S+alpha = -8.976 ( 0.002)

gap p = -2.605 ( 0.006)  
 gap n = 2.169 ( 0.025)  
 gap 2p = 4.164 ( 0.005)  
 gap 2n = 1.197 ( 0.020)

gap alpha = 0.892 ( 0.004)