

^{216}Bi β^- decay (3.41 min) [2024An09,2025Li06](#)

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|----------|--------------------|------------------------|
| Full Evaluation | C. Morse | NDS 209,409 (2026) | 5-Aug-2025 |

Parent: ^{216}Bi : $E=24$ 19; $J^\pi=(3^-)$; $T_{1/2}=3.41$ min 24; $Q(\beta^-)=4092$ 11; $\% \beta^-$ decay=100

^{216}Bi - $T_{1/2}$: Weighted average of 3.6 min 4 ([1990Ru02](#)) and 3.3 min 3 ([2024An09](#)).

^{216}Bi - $Q(\beta^-)$: From [2021Wa16](#).

[2024An09](#): ^{216}Bi produced by spallation of a 50-g/cm² UC_x target by 1.4 GeV protons at ISOLDE (CERN). Isotopes diffused out of the target and were laser ionized by RILIS, then delivered to the ISOLDE Decay Station and deposited on a tape. Four HPGe clover detectors were used for γ -rays and a plastic scintillator detected coincident β particles. Measured E_γ , I_γ , and analyzed $\beta\gamma$ and $\gamma\gamma$ coincidences; deduced decay scheme.

[2025Li06](#): ^{216}Bi produced at ISOLDE (CERN) by spallation of a 50-g/cm² UC_x target by 1.4 GeV protons. Reaction products diffused out of the target and were laser ionized by RILIS and transported to a decay tape station. Four HPGe clover detectors were used for γ -ray spectroscopy, a plastic scintillator detected β particles, and two LaBr₃ detectors were used for γ -ray timing measurements. Measured E_γ , excited-state half-lives.

See [2014Mo02](#) (^{238}U fragmentation on ^9Be target at GSI), [2000Ku06](#) ($^{232}\text{ThC}_2$ spallation by 1 GeV proton beam at ISOLDE), and [1990Ru02](#) (thorium carbide spallation by 200 MeV proton beam at Orsay) for earlier β -decay work.

^{216}Po Levels

| E(level) [†] | J^π [‡] | $T_{1/2}$ [‡] | E(level) [†] | J^π [‡] |
|-------------------------|---|------------------------|-------------------------|---|
| 0.0 [@] | 0 ⁺ | | 2010.0 3 | (1 ⁺ ,2,3,4,5 ⁺) |
| 549.76 [@] 17 | 2 ⁺ | 11 ps 5 | 2031.0 3 | (2,3,4) |
| 968.65 [@] 19 | (4 ⁺) | 21 ps 5 | 2075.2 [#] 3 | (2,3,4,5 ⁺) |
| 1130.60 20 | (2,3,4) | | 2083.5? 6 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1328.2 [@] 3 | (6 ⁺) | 31 ps 5 | 2114.5 4 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1363.91 19 | (1 ⁺ ,2 ⁺) | | 2179.7 3 | (2 ⁺ ,3,4 ⁺) |
| 1404.5 3 | (1 ⁺ ,2,3,4,5 ⁺) | | 2282.6 [#] 4 | (2,3,4,5 ⁺) |
| 1503.34 21 | (2 ⁺ ,3,4 ⁺) | | 2406.6? [#] 3 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1525.4 3 | (1 ⁺ ,2,3,4,5 ⁺) | | 2446.19 [#] 25 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1627.1 3 | (1 ⁺ ,2,3,4,5 ⁺) | | 2476.3 5 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1676.0 3 | (1 ⁺ ,2,3,4 ⁺) | | 2479.2 [#] 4 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1709.71 20 | (2 ⁺ ,3,4 ⁺) | | 2570.66 25 | (2 ⁺ ,3,4 ⁺) |
| 1727.19 21 | (2 ⁺ ,3,4 ⁺) | | 2609.7 4 | (1 ⁺ ,2,3,4) |
| 1792.25 23 | (2 ⁺ ,3,4 ⁺) | | 2683.91 23 | (2 ⁺ ,3,4 ⁺) |
| 1797.5 4 | (1 ⁺ ,2,3,4,5 ⁺) | | 2820.6 3 | (2,3,4) |
| 1818.08 [#] 23 | (1 ⁺ ,2,3,4,5 ⁺) | | 2864.4 3 | (2,3,4) |
| 1875.73 23 | (1 ⁺ ,2,3,4,5 ⁺) | | 3096.3? 9 | (1 ⁺ ,2,3,4,5 ⁺) |
| 1908.26 22 | (2 ⁺ ,3,4 ⁺) | | 3136.1? 3 | (2,3,4) |
| 1911.8 [#] 3 | (2,3,4,5 ⁺) | | 3166.5? 8 | (2,3,4) |
| 1916.8 3 | (1 ⁺ ,2,3,4,5 ⁺) | | 3290.3 6 | (2,3,4) |
| 1964.35 23 | (2 ⁺ ,3,4 ⁺) | | 3333.9 4 | (2 ⁺ ,3,4 ⁺) |
| 1970.6 [#] 3 | (1 ⁺ ,2,3,4,5 ⁺) | | 3395.9 5 | (2,3,4) |

[†] From a least-squares fit to E_γ .

[‡] From Adopted Levels.

[#] Possibly due to decay of ^{216}Bi (8⁻) state.

[@] Seq.(A): Yrast sequence.

^{216}Bi β^{-} decay (3.41 min) 2024An09,2025Li06 (continued) β^{-} radiationsav E β : [Additional information 1.](#)

| E(decay) | E(level) | I β^{-} [†] | Log ft | Comments |
|-----------|----------|----------------------------|----------|-------------------------|
| (720 22) | 3395.9 | 0.09 4 | 7.06 20 | av E β =214.5 39 |
| (782 22) | 3333.9 | 0.28 5 | 6.69 9 | av E β =236.7 40 |
| (826 22) | 3290.3 | 0.16 5 | 7.02 14 | av E β =252.6 40 |
| (950 22) | 3166.5? | 0.26 13 | 7.03 22 | av E β =298.4 41 |
| (980 22) | 3136.1? | 0.124 13 | 7.40 6 | av E β =309.7 41 |
| (1020 22) | 3096.3? | 0.11 5 | 7.51 20 | av E β =324.8 42 |
| (1252 22) | 2864.4 | 0.43 5 | 7.24 6 | av E β =414.3 43 |
| (1295 22) | 2820.6 | 1.05 15 | 6.91 7 | av E β =431.3 43 |
| (1432 22) | 2683.91 | 0.65 4 | 7.280 42 | av E β =485.7 44 |
| (1506 22) | 2609.7 | 0.31 8 | 7.68 12 | av E β =515.5 44 |
| (1545 22) | 2570.66 | 1.11 16 | 7.17 7 | av E β =531.3 45 |
| (1637 22) | 2479.2 | 0.50 11 | 7.61 10 | av E β =568.7 45 |
| (1640 22) | 2476.3 | 0.49 10 | 7.62 9 | av E β =569.9 45 |
| (1670 22) | 2446.19 | 0.61 9 | 7.56 7 | av E β =582.2 45 |
| (1709 22) | 2406.6? | 0.49 12 | 7.69 11 | av E β =598.2 45 |
| (1833 22) | 2282.6 | 0.53 11 | 7.77 10 | av E β =649.3 46 |
| (1936 22) | 2179.7 | 1.62 22 | 7.38 7 | av E β =692.0 46 |
| (2002 22) | 2114.5 | 0.83 16 | 7.72 9 | av E β =719.6 46 |
| (2033 22) | 2083.5? | 0.26 9 | 8.25 15 | av E β =732.5 46 |
| (2041 22) | 2075.2 | 0.74 4 | 7.807 39 | av E β =735.9 46 |
| (2085 22) | 2031.0 | 2.9 6 | 7.25 10 | av E β =754.3 46 |
| (2106 22) | 2010.0 | 0.40 13 | 8.13 14 | av E β =763.1 46 |
| (2145 22) | 1970.6 | 0.97 18 | 7.77 9 | av E β =779.5 46 |
| (2152 22) | 1964.35 | 1.33 6 | 7.641 37 | av E β =782.5 46 |
| (2199 22) | 1916.8 | 1.16 20 | 7.74 8 | av E β =802.3 46 |
| (2204 22) | 1911.8 | 0.94 8 | 7.832 48 | av E β =804.4 46 |
| (2208 22) | 1908.26 | 3.4 4 | 7.28 6 | av E β =806.1 46 |
| (2240 22) | 1875.73 | 2.46 24 | 7.44 5 | av E β =819.6 46 |
| (2298 22) | 1818.08 | 1.10 24 | 7.83 10 | av E β =844.1 47 |
| (2319 22) | 1797.5 | 0.68 14 | 8.06 9 | av E β =853.0 47 |
| (2324 22) | 1792.25 | 5.3 3 | 7.171 39 | av E β =855.1 47 |
| (2389 22) | 1727.19 | 13.9 3 | 6.799 32 | av E β =882.7 47 |
| (2406 22) | 1709.71 | 13.4 4 | 6.827 33 | av E β =890.0 47 |
| (2440 22) | 1676.0 | 2.1 3 | 7.66 7 | av E β =904.4 47 |
| (2489 22) | 1627.1 | 2.2 4 | 7.67 8 | av E β =925.3 47 |
| (2591 22) | 1525.4 | 1.36 24 | 7.95 8 | av E β =968.8 47 |
| (2613 22) | 1503.34 | 7.9 4 | 7.197 38 | av E β =978.2 47 |
| (2712 22) | 1404.5 | 3.30 10 | 7.640 33 | av E β =1020.6 47 |
| (2752 22) | 1363.91 | 3.04 15 | 7.701 37 | av E β =1037.8 47 |
| (2985 22) | 1130.60 | 5.4 19 | 7.59 16 | av E β =1138.0 47 |
| (3147 22) | 968.65 | 9.5 11 | 7.44 6 | av E β =1208.0 48 |
| (3566 22) | 549.76 | 6.9 21 | 7.80 14 | av E β =1389.6 48 |

[†] Absolute intensity per 100 decays.

^{216}Bi β^- decay (3.41 min) 2024An09,2025Li06 (continued) $\gamma(^{216}\text{Po})$

I γ normalization: Calculated assuming no β -decay to the ground state and that $\Sigma I_{\gamma}(1+\alpha)$ to the ground state equals 100%.

| E_{γ} | $I_{\gamma}^{\#}$ | $E_i(\text{level})$ | J_i^{π} | E_f | J_f^{π} | Mult. [†] | α^{\ddagger} | Comments |
|--------------|-------------------|---------------------|---|---------|---|--------------------|---------------------|---|
| 206.4 3 | 0.96 23 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 1503.34 | (2 ⁺ ,3,4 ⁺) | | | %I γ =0.93 22 |
| 223.7 2 | 0.82 16 | 1727.19 | (2 ⁺ ,3,4 ⁺) | 1503.34 | (2 ⁺ ,3,4 ⁺) | | | %I γ =0.79 15 |
| 305.2 @ 2 | 0.38 7 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 1404.5 | (1 ⁺ ,2,3,4,5 ⁺) | | | %I γ =0.37 7 |
| 345.7 2 | 0.76 11 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 1363.91 | (1 ⁺ ,2 ⁺) | | | %I γ =0.74 11 |
| 359.6 2 | | 1328.2 | (6 ⁺) | 968.65 | (4 ⁺) | (E2) | 0.0748 11 | $\alpha(\text{K})=0.0447$ 6; $\alpha(\text{L})=0.02254$ 32; $\alpha(\text{M})=0.00579$ 8; $\alpha(\text{N})=0.001487$ 21; $\alpha(\text{O})=0.000292$ 4 $\alpha(\text{P})=3.01\times 10^{-5}$ 4 |
| 372.6 2 | 0.82 12 | 1503.34 | (2 ⁺ ,3,4 ⁺) | 1130.60 | (2,3,4) | | | %I γ =0.79 12 |
| 418.8 2 | 43.7 7 | 968.65 | (4 ⁺) | 549.76 | 2 ⁺ | (E2) | 0.0498 7 | %I γ =42.3 7 $\alpha(\text{K})=0.0321$ 5; $\alpha(\text{L})=0.01328$ 19; $\alpha(\text{M})=0.00338$ 5; $\alpha(\text{N})=0.000868$ 12; $\alpha(\text{O})=0.0001717$ 24 $\alpha(\text{P})=1.823\times 10^{-5}$ 26 |
| 428.4 @ 3 | 0.24 5 | 1792.25 | (2 ⁺ ,3,4 ⁺) | 1363.91 | (1 ⁺ ,2 ⁺) | | | %I γ =0.23 5 |
| 534.9 3 | 1.33 13 | 1503.34 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =1.29 13 |
| 544.4 3 | 0.24 5 | 1908.26 | (2 ⁺ ,3,4 ⁺) | 1363.91 | (1 ⁺ ,2 ⁺) | | | %I γ =0.23 5 |
| 549.8 2 | 100 | 549.76 | 2 ⁺ | 0.0 | 0 ⁺ | (E2) | 0.0257 4 | %I γ =96.8 $\alpha(\text{K})=0.01826$ 26; $\alpha(\text{L})=0.00560$ 8; $\alpha(\text{M})=0.001399$ 20; $\alpha(\text{N})=0.000359$ 5; $\alpha(\text{O})=7.20\times 10^{-5}$ 10 $\alpha(\text{P})=8.04\times 10^{-6}$ 11 |
| 556.8 2 | 1.44 25 | 1525.4 | (1 ⁺ ,2,3,4,5 ⁺) | 968.65 | (4 ⁺) | | | %I γ =1.39 24 |
| 579.1 2 | 1.6 3 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 1130.60 | (2,3,4) | | | %I γ =1.55 29 |
| 580.2 @ 3 | 0.32 12 | 1908.26 | (2 ⁺ ,3,4 ⁺) | 1328.2 | (6 ⁺) | | | %I γ =0.31 12 |
| 580.9 2 | 12.2 19 | 1130.60 | (2,3,4) | 549.76 | 2 ⁺ | | | %I γ =11.8 18 |
| 596.8 2 | 1.12 6 | 1727.19 | (2 ⁺ ,3,4 ⁺) | 1130.60 | (2,3,4) | | | %I γ =1.08 6 |
| 628.1 2 | 0.43 7 | 2446.19 | (1 ⁺ ,2,3,4,5 ⁺) | 1818.08 | (1 ⁺ ,2,3,4,5 ⁺) | | | %I γ =0.42 7 |
| 658.5 2 | 2.3 4 | 1627.1 | (1 ⁺ ,2,3,4,5 ⁺) | 968.65 | (4 ⁺) | | | %I γ =2.2 4 |
| 660.9 3 | 0.23 4 | 2479.2 | (1 ⁺ ,2,3,4,5 ⁺) | 1818.08 | (1 ⁺ ,2,3,4,5 ⁺) | | | %I γ =0.22 4 |
| 684.0 4 | 0.32 8 | 2476.3 | (1 ⁺ ,2,3,4,5 ⁺) | 1792.25 | (2 ⁺ ,3,4 ⁺) | | | %I γ =0.31 8 |
| 687.5 2 | 0.78 15 | 1818.08 | (1 ⁺ ,2,3,4,5 ⁺) | 1130.60 | (2,3,4) | | | %I γ =0.76 15 |
| 741.1 2 | 3.32 5 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =3.21 5 |
| 745.0 2 | 0.80 3 | 1875.73 | (1 ⁺ ,2,3,4,5 ⁺) | 1130.60 | (2,3,4) | | | %I γ =0.774 29 |
| 758.6 2 | 12.23 12 | 1727.19 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =11.84 12 |
| 814.1 2 | 3.06 5 | 1363.91 | (1 ⁺ ,2 ⁺) | 549.76 | 2 ⁺ | | | %I γ =2.96 5 |
| 815.6 6 | 0.68 3 | 2179.7 | (2 ⁺ ,3,4 ⁺) | 1363.91 | (1 ⁺ ,2 ⁺) | | | %I γ =0.658 29 |
| 823.6 2 | 4.02 6 | 1792.25 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =3.89 6 |
| 849.3 2 | 1.04 18 | 1818.08 | (1 ⁺ ,2,3,4,5 ⁺) | 968.65 | (4 ⁺) | | | %I γ =1.01 17 |
| 854.5 4 | 0.15 4 | 2864.4 | (2,3,4) | 2010.0 | (1 ⁺ ,2,3,4,5 ⁺) | | | %I γ =0.15 4 |
| 854.7 2 | 3.87 7 | 1404.5 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | | | %I γ =3.75 7 |
| 939.6 2 | 1.31 4 | 1908.26 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =1.27 4 |
| 943.2 2 | 1.00 8 | 1911.8 | (2,3,4,5 ⁺) | 968.65 | (4 ⁺) | | | %I γ =0.97 8 |
| 953.5 2 | 7.78 9 | 1503.34 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | | | %I γ =7.53 9 |
| 995.7 2 | 0.71 5 | 1964.35 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | | | %I γ =0.69 5 |

Continued on next page (footnotes at end of table)

^{216}Bi β^- decay (3.41 min) 2024An09,2025Li06 (continued) $\gamma(^{216}\text{Po})$ (continued)

| E_γ | I_γ # | $E_i(\text{level})$ | J_i^π | E_f | J_f^π | Comments |
|------------|--------------|---------------------|---|---------|-------------------|-----------------------|
| 1002.0 | 2 | 1970.6 | (1 ⁺ ,2,3,4,5 ⁺) | 968.65 | (4 ⁺) | %I γ =1.00 18 |
| 1062.4 | 2 | 2031.0 | (2,3,4) | 968.65 | (4 ⁺) | %I γ =2.8 6 |
| 1106.6 | 2 | 2075.2 | (2,3,4,5 ⁺) | 968.65 | (4 ⁺) | %I γ =0.76 4 |
| 1126.2 | 2 | 1676.0 | (1 ⁺ ,2,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =1.65 29 |
| 1160.0 | 2 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =6.82 8 |
| 1177.3 | 2 | 1727.19 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.53 21 |
| 1211.0 | 3 | 2179.7 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | %I γ =0.51 18 |
| 1242.5 | 2 | 1792.25 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =1.65 29 |
| 1247.7 | 3 | 1797.5 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.70 14 |
| 1275.9@ | 3 | 2406.6? | (1 ⁺ ,2,3,4,5 ⁺) | 1130.60 | (2,3,4) | %I γ =0.50 12 |
| 1313.9 | 3 | 2282.6 | (2,3,4,5 ⁺) | 968.65 | (4 ⁺) | %I γ =0.54 11 |
| 1315.6 | 2 | 2446.19 | (1 ⁺ ,2,3,4,5 ⁺) | 1130.60 | (2,3,4) | %I γ =0.21 5 |
| 1326.1 | 2 | 1875.73 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =1.39 24 |
| 1348.9 | 4 | 2479.2 | (1 ⁺ ,2,3,4,5 ⁺) | 1130.60 | (2,3,4) | %I γ =0.29 10 |
| 1358.5 | 2 | 1908.26 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =1.65 29 |
| 1363.8 | 3 | 1363.91 | (1 ⁺ ,2 ⁺) | 0.0 | 0 ⁺ | %I γ =2.01 6 |
| 1367.0 | 2 | 1916.8 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =1.19 20 |
| 1414.6 | 2 | 1964.35 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.68 4 |
| 1460.3 | 3 | 2010.0 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.55 13 |
| 1481.8@ | 5 | 2031.0 | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.13 7 |
| 1503.4@ | 2 | 1503.34 | (2 ⁺ ,3,4 ⁺) | 0.0 | 0 ⁺ | %I γ =0.194 29 |
| 1533.6@ | 6 | 2083.5? | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.26 9 |
| 1564.7 | 3 | 2114.5 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.85 16 |
| 1602.1 | 2 | 2570.66 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | %I γ =0.67 13 |
| 1630.0 | 5 | 2179.7 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.49 13 |
| 1676.1@ | 2 | 1676.0 | (1 ⁺ ,2,3,4 ⁺) | 0.0 | 0 ⁺ | %I γ =0.503 29 |
| 1690.0 | 3 | 2820.6 | (2,3,4) | 1130.60 | (2,3,4) | %I γ =0.33 7 |
| 1710.0@ | 2 | 1709.71 | (2 ⁺ ,3,4 ⁺) | 0.0 | 0 ⁺ | %I γ =0.126 19 |
| 1715.1 | 2 | 2683.91 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | %I γ =0.455 29 |
| 1875.9@ | 2 | 1875.73 | (1 ⁺ ,2,3,4,5 ⁺) | 0.0 | 0 ⁺ | %I γ =0.348 29 |
| 1926.4@ | 3 | 2476.3 | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.19 6 |
| 2020.7 | 3 | 2570.66 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.47 10 |
| 2059.9 | 3 | 2609.7 | (1 ⁺ ,2,3,4) | 549.76 | 2 ⁺ | %I γ =0.32 8 |
| 2134.3 | 2 | 2683.91 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.213 29 |
| 2270.9 | 3 | 2820.6 | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.75 14 |
| 2314.6 | 2 | 2864.4 | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.290 19 |
| 2365.1 | 3 | 3333.9 | (2 ⁺ ,3,4 ⁺) | 968.65 | (4 ⁺) | %I γ =0.118 15 |
| 2546.4@ | 9 | 3096.3? | (1 ⁺ ,2,3,4,5 ⁺) | 549.76 | 2 ⁺ | %I γ =0.12 5 |
| 2586.2@ | 3 | 3136.1? | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.127 13 |
| 2616.6@ | 8 | 3166.5? | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.27 13 |
| 2740.5 | 5 | 3290.3 | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.16 5 |
| 2784.5 | 5 | 3333.9 | (2 ⁺ ,3,4 ⁺) | 549.76 | 2 ⁺ | %I γ =0.16 5 |
| 2846.1 | 4 | 3395.9 | (2,3,4) | 549.76 | 2 ⁺ | %I γ =0.10 4 |

† From Adopted Gammas.

‡ Additional information 2.

For absolute intensity per 100 decays, multiply by 0.9446 8.

@ Placement of transition in the level scheme is uncertain.

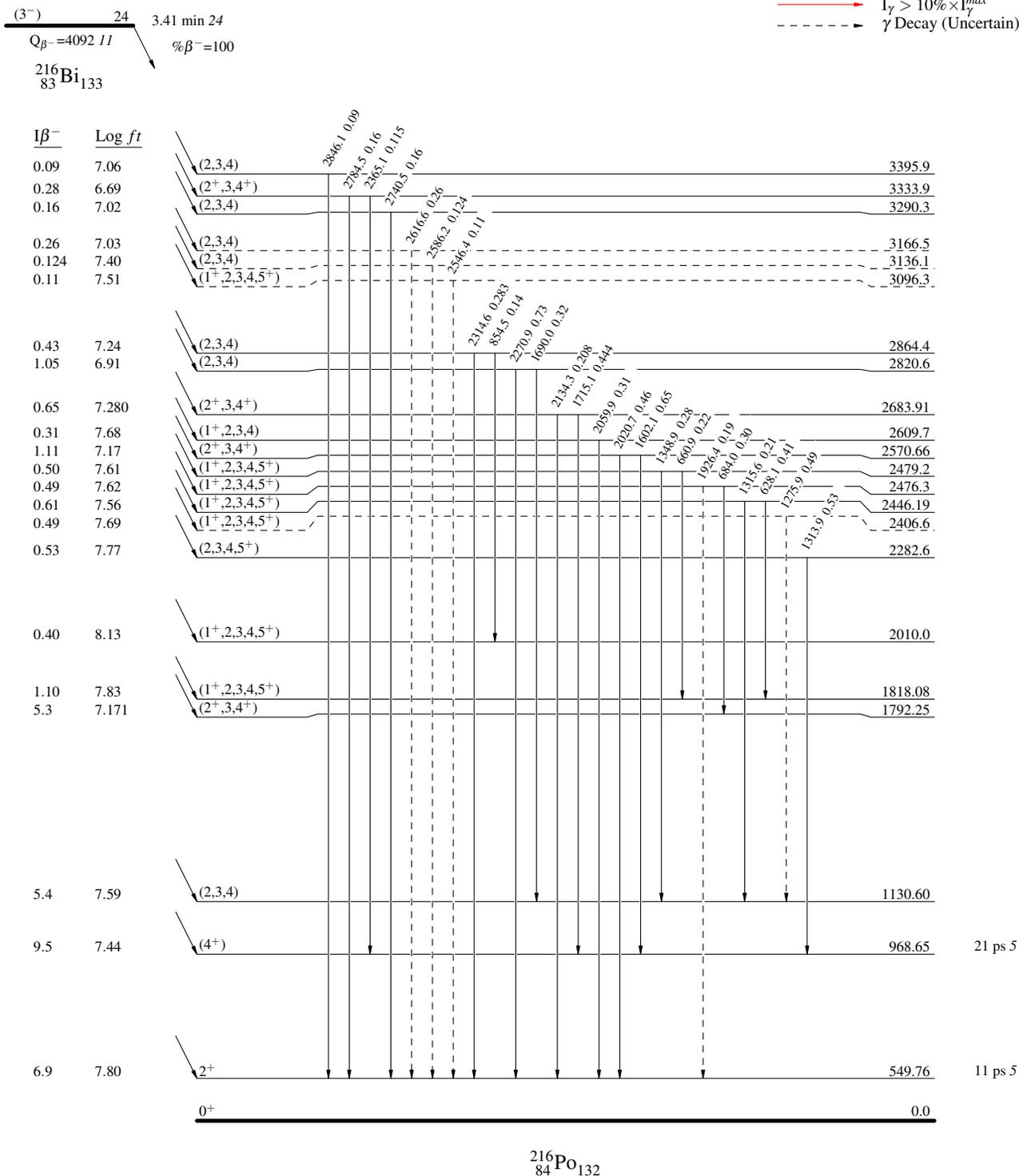
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Decay Scheme

Intensities: I_γ per 100 parent decays

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - γ Decay (Uncertain)



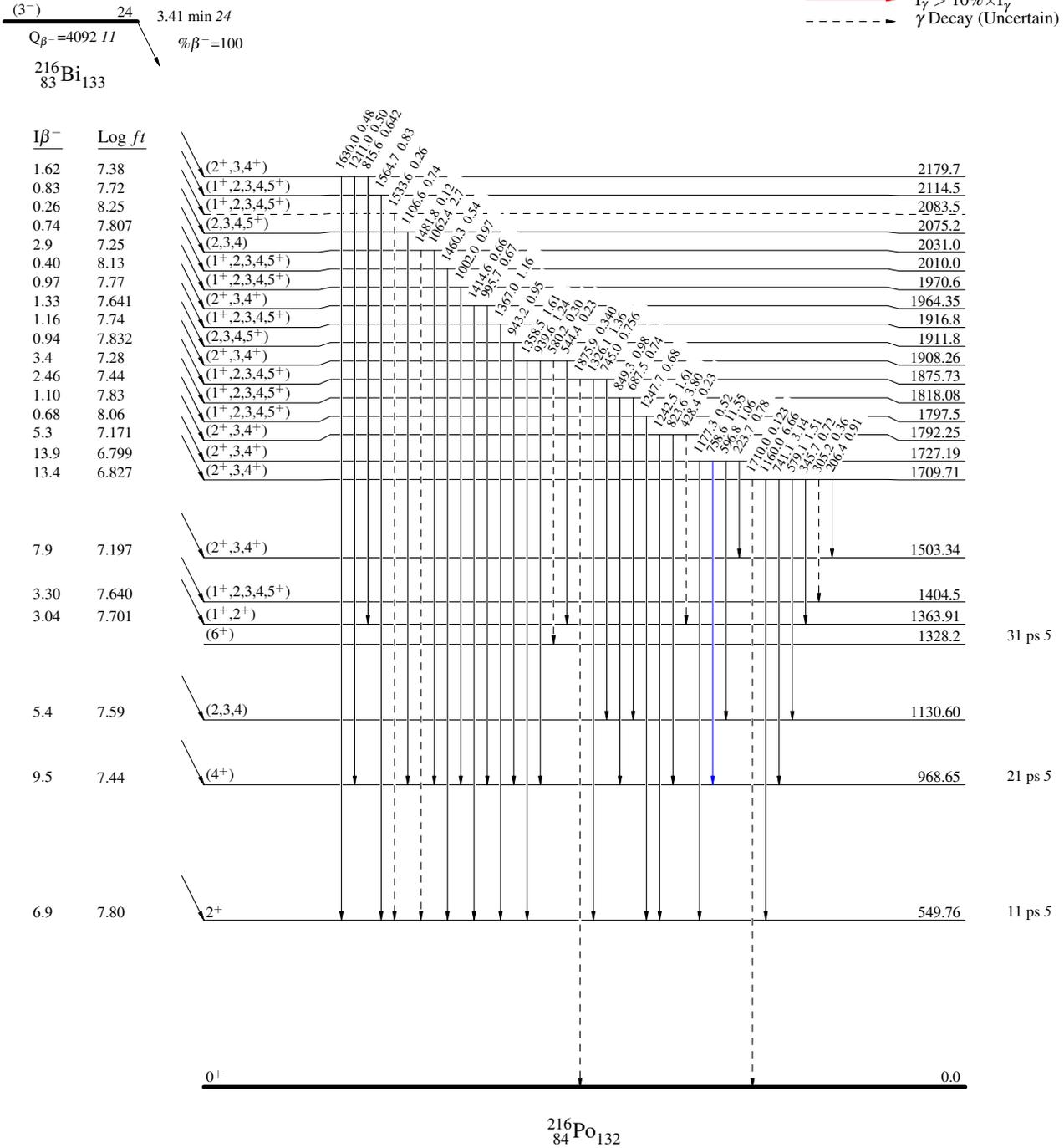
^{216}Bi β^- decay (3.41 min) 2024An09,2025Li06

Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

Legend

-  $I_\gamma < 2\% \times I_\gamma^{\max}$
-  $I_\gamma < 10\% \times I_\gamma^{\max}$
-  $I_\gamma > 10\% \times I_\gamma^{\max}$
-  γ Decay (Uncertain)



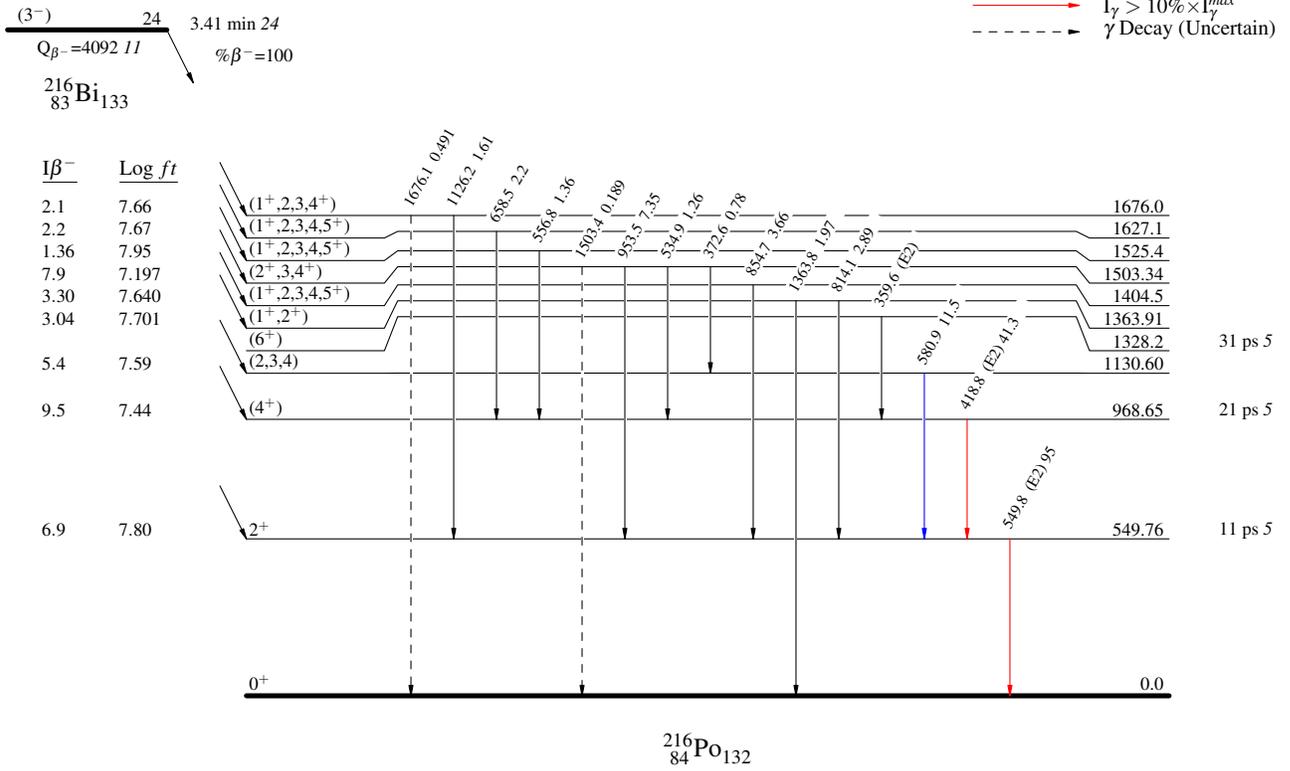
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Decay Scheme (continued)

Intensities: I_γ per 100 parent decays

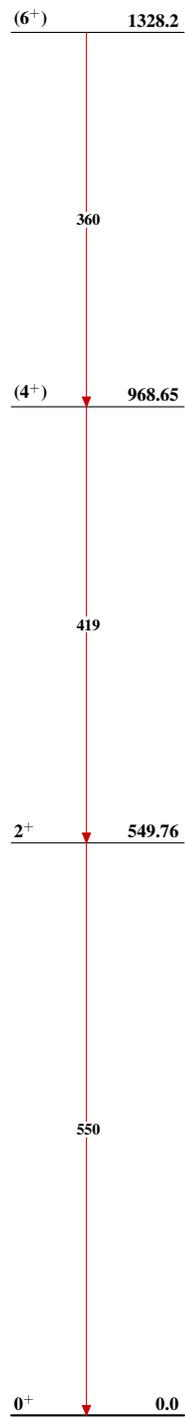
Legend

-  $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
-  $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
-  $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
-  γ Decay (Uncertain)



 ^{216}Bi β^- decay (3.41 min) 2024An09,2025Li06

Seq.(A): Yrast sequence

 $^{216}_{84}\text{Po}_{132}$