^{238}U(α,Fγ)   **2007St19**

The level scheme is that proposed by 2007St19.
2007St19,2006StZW: ^{238}U(α,Fγ), E=30 MeV; measured γ, $\gamma\gamma$-(fragment)γ-coin; deduced levels, J, π, Gammasphere.
2005Ka45: ^{238}U(α,Fγ).

^{124}Cd Levels

E(level)[†]		J$^\pi$
0.0[‡]		0^+
613.0[‡]	10	(2^+)
1385.0[‡]	15	(4^+)
1845.8[#]	17	(5^-)
2139.3[‡]	17	(6^+)
2384.5[#]	18	(7^-)
2674.3[‡]	20	(8^+)
2777.5[#]	20	(9^-)
2938.3[‡]	22	(10^+)
3664.3[‡]	24	(12^+)

[†] From a least-squares fit to Eγ's assuming Δ(Eγ)=1 keV for each γ ray.
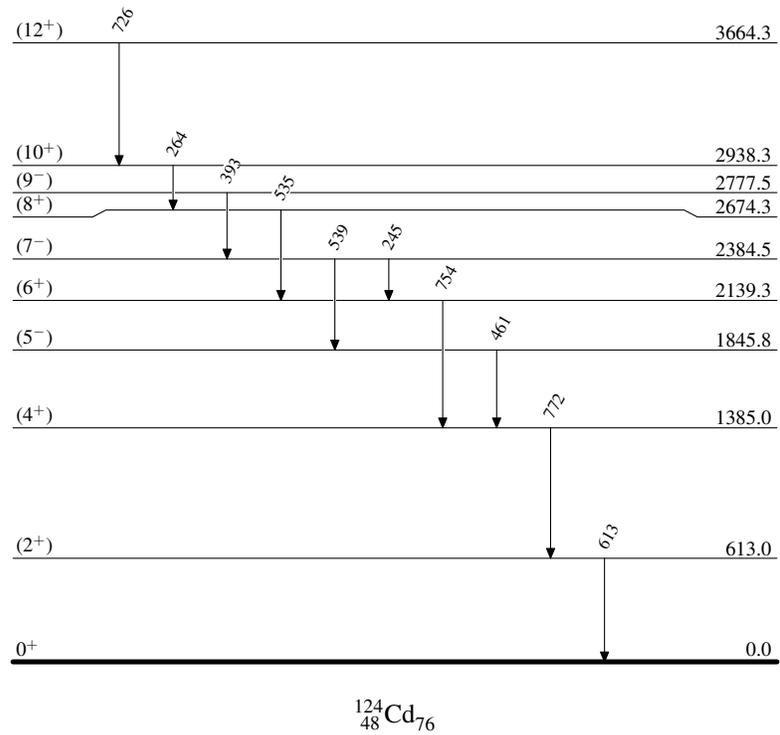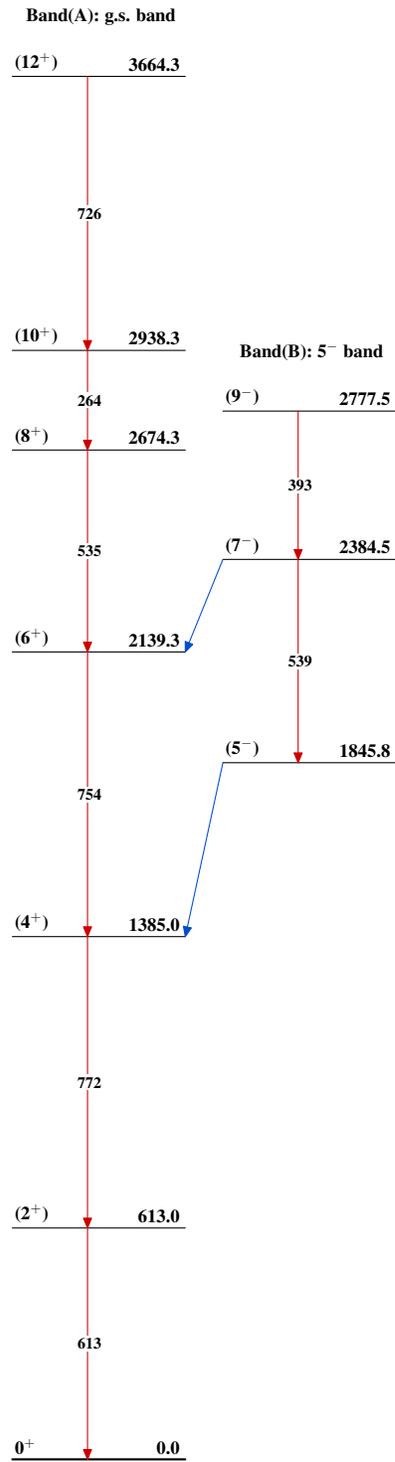[‡] Band(A): g.s. band.
[#] Band(B): 5^- band.

γ(^{124}Cd)

E$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
245	2384.5	(7^-)	2139.3	(6^+)
264	2938.3	(10^+)	2674.3	(8^+)
393	2777.5	(9^-)	2384.5	(7^-)
461	1845.8	(5^-)	1385.0	(4^+)
535	2674.3	(8^+)	2139.3	(6^+)
539	2384.5	(7^-)	1845.8	(5^-)
613	613.0	(2^+)	0.0	0^+
726	3664.3	(12^+)	2938.3	(10^+)
754	2139.3	(6^+)	1385.0	(4^+)
772	1385.0	(4^+)	613.0	(2^+)

$^{238}U(\alpha,F\gamma)$ **2007St19**

Level Scheme

$^{124}_{48}Cd_{76}$

^{238}U(α,Fγ)　　2007St19

Band(A): g.s. band

(12$^+$)　　3664.3

726

(10$^+$)　　2938.3　　　　**Band(B): 5$^-$ band**

264　　　　　　　　(9$^-$)　　2777.5

(8$^+$)　　2674.3

393

535　　　　　(7$^-$)　　2384.5

(6$^+$)　　2139.3

539

754　　　　　(5$^-$)　　1845.8

(4$^+$)　　1385.0

772

(2$^+$)　　613.0

613

0$^+$　　0.0

$^{124}_{48}$Cd$_{76}$