$^{130}_{58}Ce$ (Continued)

2313.0 *4*, (7⁻), 23 *3* ps, *[C]* γ_{2053}***260.4*** *4* (†$_\gamma$20 *4*) γ_{1955}***358.4*** *2* (†$_\gamma$100 *10*) E2 γ_{1898}***415.5*** *5* (†$_\gamma$12 *3*) γ_{1324}***989.0*** *5* (†$_\gamma$5.9 *13*)

2333.2 *5*, *[C]* γ_{1324}***1009.2*** *4* (†$_\gamma$100)

2380.8 *4*, (6⁻), *[C]* γ_{1955}***426.2*** *5* (†$_\gamma$15 *3*) γ_{1898}***483.3*** *5* (†$_\gamma$13 *3*) γ_{1324}***1056.9*** *4* (†$_\gamma$100 *20*) (E1)

2453.6 *4*, (7⁻), 109 *3* ns, *[AC]* γ_{2381}***72.8*** (†$_{\gamma+e}$≈35) γ_{2333}***120.5*** (†$_{\gamma+e}$≈85) γ_{2053}***401.0*** *5* (†$_\gamma$11 *3*) γ_{1955}***499.0*** *5* (†$_\gamma$37 *8*) γ_{1898}***556.1*** *3* (†$_\gamma$100 *20*) γ_{1324}***1129.7*** *3* (†$_\gamma$100 *20*)

2560.9 *6*, (8⁺), *[C]* γ_{1898}***663.4*** *4* (†$_\gamma$100)

2623.8, *[A]* γ_{1672}***951.9***

2642.9 *5*, (8⁻), *[C]* γ_{2454}***189.3*** *3* (†$_\gamma$100) M1+E2

2644.2 *4*, (8⁻), *[C]* γ_{2381}***263.4*** *4* (†$_\gamma$100 *20*) γ_{2313}***331.2*** *4* (†$_\gamma$69 *14*) γ_{2053}***591.6*** *5* (†$_\gamma$28 *6*)

2760.6 *4*, (9⁻), 2.8 *14* ps, *[C]* γ_{2644}***116.4*** *5* (†$_\gamma$3.7 *7*) γ_{2313}***447.6*** *2* (†$_\gamma$100 *10*) E2 γ_{2053}***708.0*** *4* (†$_\gamma$29 *6*)

2808.6 *4*, 10⁺, 0.62 *14* ps, *[C]* γ_{2053}***756.0*** *2* (†$_\gamma$100) E2

2959.3 *6*, (9⁻), *[C]* γ_{2643}***316.3*** *4* (†$_\gamma$100)

3071.3 *4*, (10⁻), 5.2 *10* ps, *[C]* γ_{2761}***310.7*** *4* (†$_\gamma$21 *4*) γ_{2644}***427.1*** *3* (†$_\gamma$100 *20*) E2

3296.8 *7*, (10⁺), *[C]* γ_{2561}***735.9*** *4* (†$_\gamma$100)

3311.5 *5*, 12⁺, 3.5 *11* ps, *[C]* γ_{2809}***502.9*** *2* (†$_\gamma$100) E2

3317.6 *6*, (10⁻), *[C]* γ_{2959}***358.4*** *5* (†$_\gamma$28 *6*) γ_{2643}***674.7*** *4* (†$_\gamma$100 *20*)

3319.5 *5*, (11⁻), <1.4 ps, *[C]* γ_{3071}***248.2*** *5* (†$_\gamma$5.5 *11*) γ_{2761}***558.9*** *3* (†$_\gamma$100 *20*) E2

3681.0 *5*, (12⁻), <1.0 ps, *[C]* γ_{3320}***361.5*** *4* (†$_\gamma$26 *6*) γ_{3071}***609.7*** *4* (†$_\gamma$100 *20*) E2

3700.6 *6*, (11⁻), *[C]* γ_{3318}***383.0*** *5* (†$_\gamma$36 *9*) γ_{2959}***741.3*** *4* (†$_\gamma$100 *20*)

3860.1 *5*, 14⁺, 0.8 *2* ps, *[C]* γ_{3312}***548.6*** *2* (†$_\gamma$100) E2

3985.6 *8*, (12⁺), *[C]* γ_{3297}***688.8*** *4* (†$_\gamma$100)

4026.4 *5*, (13⁻), *[C]* γ_{3681}***345.4*** *5* (†$_\gamma$7.7 *15*) γ_{3320}***706.9*** *3* (†$_\gamma$100 *20*)

4120.8 *7*, (12⁻), *[C]* γ_{3701}***420.3*** *5* (†$_\gamma$11 *4*) γ_{3318}***803.3*** *4* (†$_\gamma$100 *20*)

4448.5 *7*, (14⁻), *[C]* γ_{3681}***767.5*** *4* (†$_\gamma$100) E2

4536.6 *7*, (13⁻), *[C]* γ_{4121}***415.5*** *5* (†$_\gamma$32 *7*) γ_{3701}***835.8*** *4* (†$_\gamma$100 *20*)

4552.8 *6*, 16⁺, 0.85 *15* ps, *[C]* γ_{3860}***692.7*** *2* (†$_\gamma$100) E2

4755.7 *10*, (14⁺), *[C]* γ_{3986}***770.1*** *5* (†$_\gamma$100)

4862.1 *6*, (15⁻), *[C]* γ_{4026}***835.7*** *3* (†$_\gamma$100) E2

4974.0 *7*, (14⁻), *[C]* γ_{4537}***437.1*** *5* (†$_\gamma$24 *5*) γ_{4121}***853.6*** *4* (†$_\gamma$100 *20*)

5305.9 *7*, (15⁻), *[C]* γ_{4974}***332.0*** *4* (†$_\gamma$100 *20*) γ_{4537}***769.1*** *4* (†$_\gamma$93 *20*)

5343.2 *8*, (16⁻), *[C]* γ_{4449}***894.7*** *4* (†$_\gamma$100)

5383.8 *6*, 18⁺, 0.70 *14* ps, *[C]* γ_{4553}***831.0*** *2* (†$_\gamma$100)

5586.5 *8*, (16⁻), *[C]* γ_{5306}***280.5*** *4* (†$_\gamma$100 *20*) γ_{4974}***612.5*** *4* (†$_\gamma$87 *20*)

5757.6 *7*, (17⁻), *[C]* γ_{4862}***895.5*** *4* (†$_\gamma$100) E2

5881.9 *8*, (17⁻), *[C]* γ_{5587}***295.5*** *4* (†$_\gamma$100 *20*) γ_{5306}***576.0*** *5* (†$_\gamma$13 *7*)

5884.2 *8*, *[C]* γ_{4862}***1022.1*** *5* (†$_\gamma$100)

6212.6 *8*, (18⁻), *[C]* γ_{5882}***330.6*** *5* (†$_\gamma$100 *20*) γ_{5587}***626.1*** *5* (†$_\gamma$40 *10*)

6319.7 *9*, (18⁻), *[C]* γ_{5343}***976.5*** *4* (†$_\gamma$100)

6341.3 *7*, 20⁺, 0.24 *6* ps, *[C]* γ_{5384}***957.4*** *3* (†$_\gamma$100)

6577.0 *9*, (19⁻), *[C]* γ_{6213}***364.4*** *5* (†$_\gamma$100 *20*) γ_{5882}***695.0*** *5* (†$_\gamma$44 *9*)

6642.0 *8*, (19⁻), *[C]* γ_{5758}***884.4*** *4* (†$_\gamma$100)

6979.0 *9*, (20⁻), *[C]* γ_{6577}***402.0*** *5* (†$_\gamma$100 *20*) γ_{6213}***766.4*** *5* (†$_\gamma$57 *12*)

7408.3 *8*, 22⁺, 0.21 *4* ps, *[C]* γ_{6341}***1067.0*** *4* (†$_\gamma$100)

7412, (21⁻), *[C]* γ_{6577}***835*** (†$_\gamma$100)

7881, (22⁻), *[C]* γ_{6979}***902*** (†$_\gamma$100)

8378, (23⁻), *[C]* γ_{7881}***497*** γ_{7412}***966*** (†$_\gamma$100)

8569.7 *9*, 24⁺, *[C]* γ_{7408}***1161.4*** *5* (†$_\gamma$100)

8908, (24⁻), *[C]* γ_{7881}***1027*** (†$_\gamma$100)

9461, (25⁻), *[C]* γ_{8908}***553*** γ_{8378}***1083*** (†$_\gamma$100)

9702.2 *11* (?), *[C]* γ_{8570}***1132.5*** *5* (†$_\gamma$100)

9811.7, (26⁺), *[C]* γ_{8570}***1242*** (†$_\gamma$100)

10044, (26⁻), *[C]* γ_{8908}***1136*** (†$_\gamma$100)

10645, (27⁻), *[C]* γ_{9461}***1184*** (†$_\gamma$100)

11271, (28⁻), *[C]* γ_{10044}***1227*** (†$_\gamma$100)

12593, (30⁻), *[C]* γ_{11271}***1322*** (†$_\gamma$100)

$\gamma(^{130}La)$ from ^{130}Ce (25 m) EC+β⁺ decay :
107.9(u), ***130.8*** *5*, ***134.4***(u), ***162.2***(u), ***181.3***(u), ***209.1***(u), ***219.6***(u), ***307.3***(u), ***762.4*** (†$_\gamma$0.35), ***851.5*** (†$_\gamma$0.80), ***920.5*** (†$_\gamma$1.00), ***997.7*** (†$_\gamma$1.00), ***1072.6*** (†$_\gamma$1.00), ***1148.3*** (†$_\gamma$0.75), ***1229.4*** (†$_\gamma$0.65), ***1318.6*** (†$_\gamma$0.50), ***1412.4*** (†$_\gamma$0.40).