

Interpreted ENSDF: ensdf+

by V.Zerkin, Vienna, 2015-2026, ver-2026-01-22

- My ENSDF file
- MASS 184
- Nuclide 184AU
- Dataset /DECAY/ 184AU [184HG EC DECAY]

- Ident

184AU 184HG EC DECAY

2005SA40, 1994IB01, 1978NE1010NDS

201002 #Record 1/1 Ident Line:1

- Hist H Record(s): 1

184AU H TYP=FUL\$AUT=CORAL M. BAGLIN\$CIT=NDS 111,275 (2010)\$CUT=1-Oct-2009\$

#Record 1/1 Hist Line:2

#TYP: FUL //Complete revision of the nuclide

#AUT: Coral M. Baglin

#CIT: NDS 111,275 (2010)

#CUT: 1-Oct-2009

- GComm C Record(s): 8

184AU D PARENT T: 30.6 S 3 (1972Fi12), 30.9 S 3 (1994Wa23).
 184AU2D 32.5 S 10 (1970Ha18); from 5535A(T). 32.0 S 10 (1969Ha03).
 184AU3D WEIGHTED AVERAGE: 30.87 S 26.

#Record 1/8 GComm Line:3[3]

#PARENT T: 30.6 S 3 (1972Fi12), 30.9 S 3 (1994Wa23). 32.5 S 10 (1970Ha18); from 5535A(T). 32.0 S 10 (1969Ha03). WEIGHTED AVERAGE: 30.87 S 26.

184AU c Others: 1975Ho03, 1971Hu02, 1969Ha03 (observed 157|g and 237|g).

#Record 2/8 GComm Line:6

Others: 1975Ho03, 1971Hu02, 1969Ha03 (observed 157γ and 237γ).

184AU c 2005Sa40: mass-separated {+184}Hg source from fragmentation of molten
 184AU2c Pb target by 600 MeV or 1 GeV protons; Ge(Li) and Si(Li) detectors,
 184AU3c high resolution 180° magnetic spectrograph; measured E|g, I|g,
 184AU4c E(ce), I(ce). Additional sources from {+148}Sm({+40}Ar,X); planar Ge
 184AU5c (FWHM=0.9 keV at 122 keV) for E|g|<1 MeV; two HPGe detectors (FWHM
 184AU6c |?2.3 keV at 1.3 MeV) for E|g|<1.3 MeV; measured x-|g-t and |g-|g-t
 184AU7c events which were sorted to provide prompt-, total- and delayed-
 184AU8c coincidence bidimensional matrices (60 ns or 100 ns time windows).
 184AU2c Supersedes 2003IbZZ; see also 1994Ib01.

#Record 3/8 GComm Line:7[9]

#2005Sa40:: mass-separated ¹⁸⁴Hg source from
 fragmentation of molten Pb target by 600 MeV or 1 GeV
 protons; Ge(Li) and Si(Li) detectors, high resolution
 180° magnetic spectrograph; measured Eγ, Iγ, E(ce),
 I(ce). Additional sources from ¹⁴⁸Sm(⁴⁰Ar,X); planar Ge
 (FWHM=0.9 keV at 122 keV) for Eγ<1 MeV; two HPGe
 detectors (FWHM ≈ 2.3 keV at 1.3 MeV) for Eγ<1.3
 MeV; measured x-γ-t and γ-γ-t events which were sorted
 to provide prompt-, total- and delayed- coincidence
 bidimensional matrices (60 ns or 100 ns time windows).
 Supersedes 2003IbZZ; see also 1994Ib01.

184AU c 1994Ib01: mass separated source from bombardment of {+148}Sm by 185 MeV
 184AU2c {+40}Ar ions; He-jet transport, iodine aerosol; two HPGe coaxial
 184AU3c detectors, one HPGe x-ray detector; measured singles |g and x-ray
 184AU4c spectra, |g|g(t), x-|g(t). See also 1994RoZY.

#Record 4/8 GComm Line:16[4]

#1994Ib01:: mass separated source from bombardment
 of ¹⁴⁸Sm by 185 MeV ⁴⁰Ar ions; He-jet transport, iodine
 aerosol; two HPGe coaxial detectors, one HPGe x-ray
 detector; measured singles γ and x-ray spectra, γγ(t), x-
 γ(t). See also 1994RoZY.

- Show/Hide
- L-Fmt
 - G-Fmt
 - Interpret
 - #Record
 - Hierarchy
 - G-plot
 - G-plot:ok
 - L-plot/V
 - L-plot/H
 - L_n in/out

184AU c 1975Ho03: b strength function deduced from total-absorption g 184AU2c measurement	#Record 5/8 GComm Line:20[2] #1975Ho03:: β strength function deduced from total-absorption γ measurement	<input checked="" type="checkbox"/> Show/Hide <input type="checkbox"/> L-Fmt <input type="checkbox"/> G-Fmt <input checked="" type="checkbox"/> Interpret. <input checked="" type="checkbox"/> #Record <input type="checkbox"/> Hierarchy <input checked="" type="checkbox"/> G-plot <input type="checkbox"/> G-plot:ok <input type="checkbox"/> L-plot/V <input type="checkbox"/> L-plot/H <input type="checkbox"/> L_n in/out
184AU c 1978Ne10: Mass-separated source; measured E g, I g, g g coin, g g(t) 184AU2c (time resolution 6 ns {I1}).	#Record 6/8 GComm Line:22[2] #1978Ne10:: Mass-separated source; measured E g, I g, g g coin, g g(t)(time resolution 6 ns {I1}).	
184AU c	#Record 7/8 GComm Line:24	
184AU c The decay scheme is adopted from 2005Sa40. It differs greatly from 184AU2c that proposed by 1978Ne10. Although E g and I g data from 2005Sa40 and 184AU3c 1978Ne10 are in satisfactory agreement, there exist a number of 184AU4c transitions with E g<90 keV which 1978Ne10 could not detect. Also, 184AU5c the lowest energy state reported in 1978Ne10 is actually a 68-keV 2+ 184AU6c isomer, not a 3+ g.s., and the presence of a state just 3.4 keV above 184AU7c the isomer was not recognized by 1978Ne10.	#Record 8/8 GComm Line:25[7] #The decay scheme is adopted from 2005Sa40 differs greatly from that proposed by 1978Ne10. Although E γ and I γ data from 2005Sa40 and 1978Ne10 are in satisfactory agreement, there exist a number of transitions with E γ <90 keV which 1978Ne10 could not detect. Also, the lowest energy state reported in 1978Ne10 is actually a 68-keV 2+ isomer, not a 3+ g.s., and the presence of a state just 3.4 keV above the isomer was not recognized by 1978Ne10.	
- GComm CE Record(s): 1 184AU cE TI,LOGFT I(g+ce) is from intensity imbalance at each level. I(g+ce) 184AU2cE values <10% may not be reliable due to existence of unplaced 184AU3cE transitions, several of which are highly converted 184AUxcE (I(g+ce)(30.3 g) ?%).	#Record 1/1 GComm Line:32[4] #TI,LOGFT: I(γ +ce) is from intensity imbalance at each level. I(γ +ce) values <10% may not be reliable due to existence of unplaced transitions, several of which are highly converted (I(γ +ce)(30.3 γ)≈6%).	
- GComm CG Record(s): 4 184AU cG E,RI From 2005Sa40, except as noted.	#Record 1/4 GComm Line:36 #E,RI: From 2005Sa40, except as noted.	
184AU cG M From a(K)exp values given by 2005Sa40, except as noted.	#Record 2/4 GComm Line:37 #M: From α (K)exp values given by 2005Sa40, except as noted.	
184AU cG MR From analysis of ce data by 2005Sa40.	#Record 3/4 GComm Line:38 #MR: From analysis of ce data by 2005Sa40.	
184AU cG E(B) From 1978Ne10.	#Record 4/4 GComm Line:39 #E(B): From 1978Ne10.	
- LComm CL Record(s): 3 184AU cL E From least-squares fit to E g.	#Record 1/3 LComm Line:40 #E: From least-squares fit to E γ .	
184AU cL J From Adopted Levels.	#Record 2/3 LComm Line:41 #J: From Adopted Levels.	
184AU cL T From g g(t) (1978Ne10), except where noted.	#Record 3/3 LComm Line:42	

#T: From $\gamma(t)$ (1978Ne10), except where noted.

- Show/Hide
- L-Fmt
 - G-Fmt
 - Interpret.
 - #Record
 - Hierarchy
 - G-plot
 - G-plot:ok
 - L-plot/V
 - L-plot/H
 - L-n in/out

[-] Parent P Record(s): 1

184HG P 0.0 0+ 30.87 S 26 3970 24

#Record 1/1 Parent Line:43

[-] Norm N Record(s): 1

184AU N 0.034 3 0.034 3 0.9889 6 1.01122

#Record 1/1 Norm Line:44[3]

184AU cN NR from $\Sigma(S(I(|g+ce) \text{ to g.s.}))=100$, assuming no $|e+|b\{++\}$ feeding#NR: from $\Sigma(I(\gamma+ce) \text{ to g.s.})=100$, assuming no e^+ feeding to the g.s. ($\Delta J=5$) or to the 68 or 72 levels ($|DJ=2$ or 3, $|D|p=no$).

[-] PNorm PN Record(s): 1

184AU PN

#Record 1/1 PNorm Line:47

[-] UnplacedRadiation G Record(s): 12

184AU G 29.4 1 1.5 3M1 47.2 9

#Record 1/12 UnplacedRadiation "29.4" Line:48[5]

E=29.4(± 1)keV

Relative photon intensity:RI=1.5(3)

Multipolarity of transaction:M=M1

Total conversion coeff.:CC=47.2($\pm .9$)

\$LC=36.3 7 //Theoretical L-shell conversion coefficient

\$MC=8.43 15 //Conversion coefficient for M shell; calculated

\$NC+=2.51 5 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=2.10 4 //cc for N shell

\$OC=0.386 7 //cc for O shell

\$PC=0.0260 5 //cc for P shell

#M: $\alpha(L1)\exp=38 \{I18\}$, $L1:L2=1.0:0.4$, $\alpha(M1)\exp=8.7 \{I2\}$ (2005Sa40).

184AU G 30.3 1 1.7 4M1+E2 0.20 AP 98.1 AP

#Record 2/12 UnplacedRadiation "30.3" Line:53[4]

E=30.3(± 1)keV

Relative photon intensity:RI=1.7(4)

Multipolarity of transaction:M=M1+E2

Mixing Ratio:MR ≈ 0.20 Total conversion coeff.:CC ≈ 98.1

\$LC AP 74.5 //Theoretical L-shell conversion coefficient

\$MC AP 18.4 //Conversion coefficient for M shell; calculated

\$NC+ AP 5.31 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC AP 4.53 //cc for N shell

\$OC AP 0.764 //cc for O shell

\$PC AP 0.0233 //cc for P shell

#M: $\alpha(L1)\exp=35 \{I10\}$, $\alpha(L3)\exp=21 \{I8\}$ (2005Sa40).

184AUS G LC AP 74.5\$MC AP 18.4\$NC+ AP 5.31

184AUS G NC AP 4.53\$OC AP 0.764\$PC AP 0.0233

184AU cG M |a(L1)exp=35 {I10}, |a(L3)exp=21 {I8} (2005Sa40).

184AU G 43.3 3 4.3 6

#Record 3/12 UnplacedRadiation "43.3" Line:57[2]

184AU cG	Only weak, mixed electron lines observed (2005Sa40).	E=43.3(±.3)keV Relative photon intensity:RI=4.3(6) Only weak, mixed electron lines observed (2005)
184AU G 45.8 1 2.0 3M1(+E2) 0.10 AP 14.54 AP	#Record 4/12 UnplacedRadiation "45.8" Line:59 E=45.8(±.1)keV Relative photon intensity:RI=2.0(3) Multipolarity of transaction:M=M1(+E2) Mixing Ratio:MR≈0.10 Total conversion coeff.:CC≈14.54 \$LC AP 11.14 //Theoretical L-shell conversion coefficient \$MC AP 2.62 //Conversion coefficient for M shell; calculated \$NC+ AP 0.777 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC AP 0.652 //cc for N shell \$OC AP 0.1176 //cc for O shell \$PC AP 0.00698 //cc for P shell	
184AUS G LC AP 11.14\$MC AP 2.62\$NC+ AP 0.777		
184AUS G NC AP 0.652\$OC AP 0.1176\$PC AP 0.00698		
184AU cG M a(L1)exp=13 {I3}, L1:L3 ?1.00:0.12 (2005Sa40).	M: α(L1)exp=13 {I3}, L1:L3≈1.00:0.12 (2005Sa40).	
184AU G 110.8 2 5 1(M1) 5.41	#Record 5/12 UnplacedRadiation "110.8" Line:63[4] E=110.8(±.2)keV Relative photon intensity:RI=5(1) Multipolarity of transaction:M=(M1) Total conversion coeff.:CC=5.41 \$KC=4.44 7 //Theoretical K- conversion coefficient \$LC=0.746 12 //Theoretical L-shell conversion coefficient \$MC=0.173 3 //Conversion coefficient for M shell; calculated \$NC+=0.0516 8 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.0431 7 //cc for N shell \$OC=0.00793 12 //cc for O shell \$PC=0.000535 8 //cc for P shell	
184AUS G KC=4.44 7\$LC=0.746 12\$MC=0.173 3\$NC+=0.0516 8		
184AUS G NC=0.0431 7\$OC=0.00793 12\$PC=0.000535 8		
184AU cG M a(K)exp=7 {I3} (2005Sa40).	M: α(K)exp=7 {I3} (2005Sa40).	
184AU G 112.6 2 4 1(M1) 5.17	#Record 6/12 UnplacedRadiation "112.6" Line:67[4] E=112.6(±.2)keV Relative photon intensity:RI=4(1) Multipolarity of transaction:M=(M1) Total conversion coeff.:CC=5.17 \$KC=4.24 7 //Theoretical K- conversion coefficient \$LC=0.712 11 //Theoretical L-shell conversion coefficient \$MC=0.1652 25 //Conversion coefficient for M shell; calculated \$NC+=0.0492 8 //Summed conversion	
184AUS G KC=4.24 7\$LC=0.712 11\$MC=0.1652 25\$NC+=0.0492 8		
184AUS G NC=0.0412 7\$OC=0.00757 12\$PC=0.000511 8		
184AU cG M a(K)exp=3.6 {I10} (2005Sa40).		

- Show/Hide
- L-Fmt
 - G-Fmt
 - Interpret.
 - #Record
 - Hierarchy
 - G-plot
 - G-plot:ok
 - L-plot/V
 - L-plot/H
 - L_n in/out

coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.0412 7 //cc for N shell

\$OC=0.00757 12 //cc for O shell

\$PC=0.000511 8 //cc for P shell

#M: $\alpha(K)exp=3.6$ {110} (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU G 176.9 3 12 5

B

#Record 7/12 UnplacedRadiation "176.9" Line:7

E=176.9(±.3)keV

Relative photon intensity:RI=12(5)

#Record 8/12 UnplacedRadiation "177.3" Line:7

E=177.3(±.2)keV

Relative photon intensity:RI=26(4)

Multipolarity of transaction:M=E1,E2

Total conversion coeff.:CC=0.34(±.24)

\$KC=0.16 8 //Theoretical K- conversion coefficient

\$LC=0.14 13 //Theoretical L-shell conversion

coefficient

\$MC=0.04 4 //Conversion coefficient for M shell;

calculated

\$NC+=0.011 10 //Summed conversion

coefficients of N-, O-, P-, Q- and R-shells

#M: $\alpha(K)exp<0.3$ (2005Sa40).

184AU G 178.1 2 6 2 E1, E2 0.33 24

#Record 9/12 UnplacedRadiation "178.1" Line:75[3]

E=178.1(±.2)keV

Relative photon intensity:RI=6(2)

Multipolarity of transaction:M=E1,E2

Total conversion coeff.:CC=0.33(±.24)

\$KC=0.15 8 //Theoretical K- conversion coefficient

\$LC=0.13 12 //Theoretical L-shell conversion

coefficient

\$MC=0.03 4 //Conversion coefficient for M shell;

calculated

\$NC+=0.011 10 //Summed conversion

coefficients of N-, O-, P-, Q- and R-shells

#M: $\alpha(K)exp\leq0.4$ (2005Sa40).

184AU G 291.5 2 17 3M1 0.359

#Record 10/12 UnplacedRadiation "291.5" Line:78[5]

E=291.5(±.2)keV

Relative photon intensity:RI=17(3)

Multipolarity of transaction:M=M1

Total conversion coeff.:CC=0.359

\$KC=0.296 5 //Theoretical K- conversion

coefficient

\$LC=0.0488 7 //Theoretical L-shell conversion

coefficient

\$MC=0.01131 16 //Conversion coefficient for M

shell; calculated

\$NC+=0.00337 5 //Summed conversion

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU G 331.5 2 10 2(M1) 0.253
 184AUS G KC=0.209 3\$LC=0.0343 5\$MC=0.00795 12\$NC+=0.00237 4
 184AUS G NC=0.00198 3\$OC=0.000364 6\$PC=2.47E-5 4
 184AU cG M |a(K)exp=0.32 {I13} (2005Sa40).

coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.00282 4 //cc for N shell

\$OC=0.000518 8 //cc for O shell

\$PC=3.51E-5 5 //cc for P shell

#M: $\alpha(K)\exp=0.30$ {I9}, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.00237$ (2005Sa40).

#Record 11/12 UnplacedRadiation "331.5" Line

E=331.5(±.2)keV

Relative photon intensity:RI=10(2)

Multipolarity of transaction:M=(M1)

Total conversion coeff.:CC=0.253

\$KC=0.209 3 //Theoretical K- conversion

coefficient

\$LC=0.0343 5 //Theoretical L-shell conversion coefficient

\$MC=0.00795 12 //Conversion coefficient for M shell; calculated

\$NC+=0.00237 4 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.00198 3 //cc for N shell

\$OC=0.000364 6 //cc for O shell

\$PC=2.47E-5 4 //cc for P shell

#M: $\alpha(K)\exp=0.32$ {I13} (2005Sa40).

184AU G 392.4 2 110 20

B

#Record 12/12 UnplacedRadiation "392.4" Line:87

E=392.4(±.2)keV

Relative photon intensity:RI=110(20)

-| Level L Record(s): 20

184AU L 0.0 5+ 20.6 S 9
 184AU cL T from Adopted Levels.

#Record 1/20 Level "L0:0.0 5+" Line:88[2]
 Energy=0.0keV Spin and parity:Jπ=5+
 T½=20.6(±.9)sec

#T: from Adopted Levels.

184AU L 68.46 4 2+ 47.6 S 14

M

184AU cL T from Adopted Levels.

#Record 2/20 Level "L1:68.46(4) 2+" Line:90[2] Child:1
 Energy=68.46(±.04)keV Spin and parity:Jπ=2+
 T½=47.6(±1.4)sec Meta:MS=M

#T: from Adopted Levels.

184AU G 68.46 4 0.90 7M3 3.19E3 2.87E+3 23

184AUS G LC=2.29E3 4\$MC=694 10\$NC+=208 3

184AUS G NC=178 3\$OC=29.4 5\$PC=0.774 11

184AU cG TI from |S(I(|g+ce) to 68 level)=2870 {I230}.

184AU cG RI from I(|g+ce) and |a.

184AU cG M L3/(L1+L2)=1.6 {I4}, L2<<L1 (1990Ed01);

184AU2cG (L1+L2):L3:M:N:O=232 {I35}:397 {I60}:197 {I30}:45 {I7}:18 {I6}

184AUxCG (2005Sa40).

184AU CG %I|g=0.0303 {I10} assuming recommended decay scheme

184AU2cG normalization.

#Record 1/1 Gamma "68.46(4) M3 0.90(7)" Line:92[10]

E=68.46(±.04)keV

Init.Level:L1:68.46(4) 2+ Final.Level:L0:0.0 5+
 [E1-E0=68.46; E1-E0-Ey=0<1% of L1
 (0.685keV)]

Relative photon intensity:RI=0.90(7)

Multipolarity of transaction:M=M3

Total conversion coeff.:CC=3.19E3

Relative total transition intensity:TI=2.87E+3(23)

\$LC=2.29E3 4 //Theoretical L-shell conversion

coefficient
 $\$MC=694$ 10 //Conversion coefficient for L shell
calculated
 $\$NC+=208$ 3 //Summed conversion coefficient for N, O-, P-, Q- and R-shells
 $\$NC=178$ 3 //cc for N shell
 $\$OC=29.4$ 5 //cc for O shell
 $\$PC=0.774$ 11 //cc for P shell
#TI: from $\Sigma(I(\gamma+ce))$ to 68 level)=2870 {I230}.
#RI: from $I(\gamma+ce)$ and α .

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

#M: $L_3/(L_1+L_2)=1.6$ {I4}, $L_2 << L_1$ (1990Ed01);
 $(L_1+L_2):L_3:M:N:O=232$ {I35}:397 {I60}:197 {I30}:45
{I7}:18 {I6} (2005Sa40).

% $\ln\gamma=0.0303$ {I10} assuming recommended decay scheme normalization.

184AU L 71.87 9 2+, 3+

#Record 3/20 Level "L2:71.87(9) 2+,3+" Line:102
Child:1

Energy=71.87($\pm .09$)keV Spin and parity: $J\pi=2+,3+$

#Record 1/1 Gamma "3.4(2) (M1)" Line:103[4]
E=3.4($\pm .2$)keV

Init.Level:L2:71.87(9) 2+,3+
Final.Level:L1:68.46(4) 2+ [E2-E1=3.41; E2-E1-E γ =0.01 $\in \sigma$]
Multipolarity of transaction:M=(M1)

Relative total transition intensity:TI=1.55E3(16)
#TI: from $\Sigma(I(\gamma+ce))$ to 72 level); no $\varepsilon+\beta^+$ expected to level.
#M: N1 and O conversion lines observed (2005Sa40).

184AU G 3.4 2 (M1) 1.55E3 16
184AU cG TI from |S(I(|g+ce)) to 72 level); no |e+|b{++} expected to 184AUxG level.
184AU cG M N1 and O conversion lines observed (2005Sa40).

184AU L 86.50 8 (2,3)+

#Record 4/20 Level "L3:86.50(8) (2,3)+" Line:107
Child:1

Energy=86.50($\pm .08$)keV Spin and parity: $J\pi=(2,3)+$

#Record 1/1 Gamma "18.1(2) M1 2.3(7)" Line:108[4]
E=18.1($\pm .2$)keV

Init.Level:L3:86.50(8) (2,3)+
Final.Level:L1:68.46(4) 2+ [E3-E1=18.04; E3-E1-E γ =-0.06 $\in 0.5\sigma$]
Relative photon intensity:RI=2.3(7)

Multipolarity of transaction:M=M1
Total conversion coeff.:CC=198(± 8)
\$LC=152 6 //Theoretical L-shell conversion

184AU G 18.1 2 2.3 7M1 198 8
184AUS G LC=152 6\$MC=35.6 13\$NC+=10.6 4
184AUS G NC=8.9 4\$OC=1.63 6\$PC=0.110 4
184AU cG M |a(L1)exp=130 {I25}, L1:L2=1.00:0.11 {I1} (2005Sa40).

coefficient
 $\$MC=35.6$ 13 //Conversion coefficient for calculated
 $\$NC+=10.6$ 4 //Summed conversion coeff of N-, O-, P-, Q- and R-shells
 $\$NC=8.9$ 4 //cc for N shell
 $\$OC=1.63$ 6 //cc for O shell
 $\$PC=0.110$ 4 //cc for P shell
#M: $\alpha(L1)\exp=130$ {I25}, L1:L2=1.00:0.11 {I1} (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU L 129.13 8 (1, 2)+

#Record 5/20 Level "L4:129.13(8) (1,2)+" Line:112

Child:4

Energy=129.13($\pm .08$)keV Spin and parity:Jn=(1,2)+

#Record 1/4 EC Line:113[2]

Intensity of β^+ -decay branch: IB=3.8(± 2.5)

Intensity of electron capture branch: IE=11(± 7)

The log ft for ($\varepsilon + \beta^+$) transition :LOGFT=5.0($\pm .3$)

Total ($\varepsilon + \beta^+$) decay intensity: TI=15(± 10)

\$EAV=1271 11 //Average energy of the β^+ spectrum

\$CK=0.610 4 //Calculated fraction of decay by electron capture from the K shell

\$CL=0.1059 7 //Calculated fraction of decay by electron capture from the L shell

\$CM+=0.03387 23

#Record 2/4 Gamma "42.7(1) M1(+E2) 1.9(4)"

Line:115[4]

E=42.7($\pm .1$)keV

Init.Level:L4:129.13(8) (1,2)+

Final.Level:L3:86.50(8) (2,3)+ [E4-E3=42.63; E4-E3-Ey=-0.07 $\in 0.5\sigma$]

Relative photon intensity: RI=1.9(4)

Multipolarity of transaction: M=M1(+E2)

Total conversion coeff.: CC=1.4E2($\pm 1.3E2$)

\$LC=1.1E2 10 //Theoretical L-shell conversion coefficient

\$MC=28 25 //Conversion coefficient for M shell; calculated

\$NC+=8 7 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=7 7 //cc for N shell

\$OC=1.1 10 //cc for O shell

\$PC=0.005 4 //cc for P shell

#M: $\alpha(L1)\exp\leq 22$, $\alpha(L3)\exp<1.8$ (2005Sa40) allows E1

184AU G 57.3 2 4 2E2+M1 1.2 AP 40.9 AP														
184AUS G LC AP 30.7\$MC AP 7.91\$NC+ AP 2.26														
184AUS G NC AP 1.94\$OC AP 0.312\$PC AP 0.00181														
184AU cG M a(L2)exp ? a(L3)exp=12 {I6}, L1:L2:L3=1.0:7.2 {I15}:6.9														
184AUXcG {I15} (2005Sa40).														
184AU G 60.6 1 26 4M1 5.60														
184AUS G LC=4.31 7\$MC=1.000 15\$NC+=0.298 5														
184AUS G NC=0.249 4\$OC=0.0458 7\$PC=0.00309 5														
184AU cG M a(L1)exp=4 {I1}, L1:L2:L3=1.00:0.13 {I3}: <0.04,														
184AU2cG a(M1)exp=0.9 {I1} (2005Sa40).														
184AU L 146.50 12 4+														
184AU G 74.5 2 7 4[M1,E2] 11 8 @														
184AUS G LC=8 6\$MC=2.1 15\$NC+=0.6 5														
184AUS G NC=0.5 4\$OC=0.08 6\$PC=0.0010 8														
184AU cG RI from g g coin; I g=40 {I4} for doublet (2005Sa40).														

or M1.

#Record 3/4 Gamma "57.3(2) E2+M1 4(2)" Line:
 E=57.3(\pm .2)keV
 Init.Level:L4:129.13(8) (1,2)+
 Final.Level:L2: 71.87(9) 2+,3+ [E4-E2=57]
 E2-Ey = -0.04 \in 0.2 σ
 Relative photon intensity:RI=4(2)
 Multipolarity of transaction:M=E2+M1
 Mixing Ratio:MR \approx 1.2
 Total conversion coeff.:CC \approx 40.9
 \$LC AP 30.7 //Theoretical L-shell conversion coefficient
 \$MC AP 7.91 //Conversion coefficient for M shell; calculated
 \$NC+ AP 2.26 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 \$NC AP 1.94 //cc for N shell
 \$OC AP 0.312 //cc for O shell
 \$PC AP 0.00181 //cc for P shell
 #M: α (L2)exp \approx α (L3)exp=12 {I6}, L1:L2:L3=1.0:7.2 {I15}:6.9 {I15} (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

#Record 4/4 Gamma "60.6(1) M1 26(4)" Line:124[5]
 E=60.6(\pm .1)keV
 Init.Level:L4:129.13(8) (1,2)+
 Final.Level:L1: 68.46(4) 2+ [E4-E1=60.67; E4-E1-Ey = 0.07 \in 0.5 σ]
 Relative photon intensity:RI=26(4)
 Multipolarity of transaction:M=M1
 Total conversion coeff.:CC= 5.60
 \$LC=4.31 7 //Theoretical L-shell conversion coefficient
 \$MC=1.000 15 //Conversion coefficient for M shell; calculated
 \$NC+=0.298 5 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 \$NC=0.249 4 //cc for N shell
 \$OC=0.0458 7 //cc for O shell
 \$PC=0.00309 5 //cc for P shell
 #M: α (L1)exp=4 {I1}, L1:L2:L3=1.00:0.13 {I3}: <0.04,
 α (M1)exp=0.9 {I1} (2005Sa40).

#Record 6/20 Level "L5:146.50(12) 4+" Line:129 Child:2
 Energy=146.50(\pm .12)keV Spin and parity:J π =4+
 #Record 1/2 Gamma "74.5(2) [M1,E2] 7(4)" Line:130[6]
 E=74.5(\pm .2)keV
 Init.Level:L5:146.50(12) 4+

184AU cG M |a(L1)exp=2.4 {I4}, M1:M2:M3=1.00:0.21:0.09 (2005Sa40) for
184AUxcG doublet.

Final.Level:L2:71.87(9) 2+,3+ [E5-E2=74.63; E5-
E2-Ey = 0.13 ± 0.5σ]
Relative photon intensity:RI=7(4)
Multipolarity of transaction:M=[M1,E2]
Total conversion coeff.:CC=11(± 8)
\$LC=8 6 //Theoretical L-shell conversion
coefficient
\$MC=2.1 15 //Conversion coefficient for N
calculated
\$NC+=0.6 5 //Summed conversion coeffic
N-, O-, P-, Q- and R-shells
\$NC=0.5 4 //cc for N shell
\$OC=0.08 6 //cc for O shell
\$PC=0.0010 8 //cc for P shell
#RI: from $\gamma\gamma$ coin; $I\gamma=40$ {I4} for doublet (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU G 146.5 4 24 8 M1(+E2) 1.8 7
184AUS G KC=1.2 9\$LC=0.46 13\$MC=0.12 4\$NC+=0.034 11
184AUS G NC=0.029 10\$OC=0.0048 13\$PC=0.00014 11
184AU cG M |a(K)exp|<3.5, (|a(L1)exp+|a(L2)exp)=0.26 {I10},
184AUxcG |a(L3)exp|<0.08 (2005Sa40).
184AU cG E|g=146.0 {I3}, I|g=48 {I4}, unplaced |g in 1978Ne10.

#Record 2/2 Gamma "146.5(4) M1(+E2) 24(8)"
Line:136[6]
E=146.5(±.4)keV
Init.Level:L5:146.50(12) 4+ Final.Level:L0:0.0 5+
[E5-E0=146.5; E5-E0-Ey = 0<1% of L1
(0.685keV)]
Relative photon intensity:RI=24(8)
Multipolarity of transaction:M=M1(+E2)
Total conversion coeff.:CC=1.8(±.7)
\$KC=1.2 9 //Theoretical K- conversion coefficient
\$LC=0.46 13 //Theoretical L-shell conversion
coefficient
\$MC=0.12 4 //Conversion coefficient for M shell;
calculated
\$NC+=0.034 11 //Summed conversion
coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.029 10 //cc for N shell
\$OC=0.0048 13 //cc for O shell
\$PC=0.00014 11 //cc for P shell
#M: $\alpha(K)\exp \leq 3.5$, $(\alpha(L1)\exp + \alpha(L2)\exp) = 0.26$ {I10},
 $\alpha(L3)\exp \leq 0.08$ (2005Sa40).
Eγ=146.0 {I3}, Iγ=48 {I4}, unplaced γ in 1978Ne10.

184AU L 228.40 7 3- 69 NS 6
184AU cL T from 157|g-237|g(t) (1994Ib01). Other T{-1/2}:
184AU2cL 67 ns {I8} (H. Haas (1978), private communication to authors of
184AU3cL 1994Ib01); 36 ns {I6} (1978Ne10).

#Record 7/20 Level "L6:228.40(7) 3-" Line:142[4]
Child:4
Energy=228.40(±.07)keV Spin and parity:Jπ=3-
 $T_{1/2}=69(\pm 6) \cdot 10^{-9}$ sec

```

184AU G 81.9 1 60 8E1 0.670
184AUS G KC=0.529 8$LC=0.1089 16$MC=0.0254 4$NC+=0.00731 11
184AUS G NC=0.00621 9$OC=0.001054 16$PC=4.37E-5 7
184AU cG M (|a(L1)exp+|a(L2)exp)|<0.3 (2005Sa40).

```

#T: from $157\gamma-237\gamma(t)$ (1994lb01). Other $T_{1/2}$: 67 ns [18].
(H. Haas (1978), private communication to author 1994lb01); 36 ns [16] (1978Ne10).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

#Record 1/4 Gamma "81.9(1) E1 60(8)" Line:12
E=81.9($\pm .1$)keV
Init.Level:L6:228.40(7) 3-
Final.Level:L5:146.50(12) 4+ [E6-E5=81.
E5-Ey =0 \in 0 σ]
Relative photon intensity:RI=60(8)
Multipolarity of transaction:M=E1
Total conversion coeff.:CC=0.670
\$KC=0.529 8 //Theoretical K- conversion
coefficient
\$LC=0.1089 16 //Theoretical L-shell conversion
coefficient
\$MC=0.0254 4 //Conversion coefficient for M
shell; calculated
\$NC+=0.00731 11 //Summed conversion
coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.00621 9 //cc for N shell
\$OC=0.001054 16 //cc for O shell
\$PC=4.37E-5 7 //cc for P shell
#M: ($\alpha(L1)exp+\alpha(L2)exp$) \leq 0.3 (2005Sa40).

```

184AU G 141.8 1 32 4(E1+M2) 0.39 2.42
184AUS G KC=1.725 25$LC=0.526 8$MC=0.1314 19$NC+=0.0394 6
184AUS G NC=0.0331 5$OC=0.00595 9$PC=0.000346 5
184AU cG M |a(K)exp=1.8 {I5}, (|a(L1)exp+|a(L2)exp)=0.45 {I9},
184AU2CG |a(L3)exp=0.09 {I4} (2005Sa40). M1+E2 (|d=0.59) also possible, but
184AUxCG |D|p=yes from level scheme.
184AU cG E|g=141.6 {I3}, I|g=19 {I3} (1978Ne10).

```

#Record 2/4 Gamma "141.8(1) (E1+M2) 32(4)"
Line:150[7]
E=141.8($\pm .1$)keV
Init.Level:L6:228.40(7) 3- Final.Level:L3:86.50(8)
(2,3)+ [E6-E3=141.9; E6-E3-Ey =0.1 \in 0.5 σ]
Relative photon intensity:RI=32(4)
Multipolarity of transaction:M=(E1+M2)
Mixing Ratio:MR=0.39
Total conversion coeff.:CC=2.42
\$KC=1.725 25 //Theoretical K- conversion
coefficient
\$LC=0.526 8 //Theoretical L-shell conversion
coefficient
\$MC=0.1314 19 //Conversion coefficient for M
shell; calculated
\$NC+=0.0394 6 //Summed conversion
coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.0331 5 //cc for N shell
\$OC=0.00595 9 //cc for O shell
\$PC=0.000346 5 //cc for P shell
#M: $\alpha(K)exp=1.8$ {I5}, $(\alpha(L1)exp+\alpha(L2)exp)=0.45$ {I9},
 $\alpha(L3)exp=0.09$ {I4} (2005Sa40). M1+E2 ($\delta=0.59$) also
possible, but $\Delta\pi=yes$ from level scheme.

<pre> 184AU G 156.5 1 1.02E3 10 E1 0.1335 184AUS G KC=0.1087 16\$LC=0.0191 3\$MC=0.00442 7\$NC+=0.001288 19 184AUS G NC=0.001088 16\$OC=0.000190 3\$PC=9.53E-6 14 184AU cG M a(K)exp=0.10 {I2}, (a(L1)exp+ a(L2)exp)=0.012 {I4} 184AU2cG (2005Sa40); a(K)exp=0.10 (1970FiZZ). 184AU cG E g=156.2 {I2}, I g=910 {I90} in 1978Ne10. </pre>	<p>$E\gamma=141.6 \{I3\}$, $I\gamma=19 \{I3\}$ (1978Ne10).</p> <p>#Record 3/4 Gamma "156.5(1) E1 1.02E3(10)" Line:157[6] $E=156.5(\pm.1)\text{keV}$ Init.Level:L6:228.40(7) 3- Final.Level:L2:2+ $[E6-E2=156.53; E6-E2-E\gamma=0.03\text{eV}]$ Relative photon intensity:RI=1.02E3(10) Multipolarity of transaction:M=E1 Total conversion coeff.:CC=0.1335 \$KC=0.1087 16 //Theoretical K- conversion coefficient \$LC=0.0191 3 //Theoretical L-shell conversion coefficient \$MC=0.00442 7 //Conversion coefficient for M shell; calculated \$NC+=0.001288 19 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.001088 16 //cc for N shell \$OC=0.000190 3 //cc for O shell \$PC=9.53E-6 14 //cc for P shell #M: $\alpha(K)\exp=0.10 \{I2\}$, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.012 \{I4\}$ (2005Sa40); $\alpha(K)\exp=0.10$ (1970FiZZ).</p>
<pre> 184AU G 160.0 1 23 5(E1) 0.1262 184AUS G KC=0.1028 15\$LC=0.0180 3\$MC=0.00417 6\$NC+=0.001215 18 184AUS G NC=0.001026 15\$OC=0.000180 3\$PC=9.04E-6 13 184AU cG M a(K)exp=0.3 {I2} (2005Sa40). 184AU cG E g=159.2 {I4}, I g=10 {I3} (1978Ne10). </pre>	<p>$E\gamma=156.2 \{I2\}$, $I\gamma=910 \{I90\}$ in 1978Ne10.</p> <p>#Record 4/4 Gamma "160.0(1) (E1) 23(5)" Line:163[5] $E=160.0(\pm.1)\text{keV}$ Init.Level:L6:228.40(7) 3- Final.Level:L1:68.46(4) $[E6-E1=159.94; E6-E1-E\gamma=-0.06\in0.5\sigma]$ Relative photon intensity:RI=23(5) Multipolarity of transaction:M=(E1) Total conversion coeff.:CC=0.1262 \$KC=0.1028 15 //Theoretical K- conversion coefficient \$LC=0.0180 3 //Theoretical L-shell conversion coefficient \$MC=0.00417 6 //Conversion coefficient for M shell; calculated \$NC+=0.001215 18 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.001026 15 //cc for N shell \$OC=0.000180 3 //cc for O shell \$PC=9.04E-6 13 //cc for P shell #M: $\alpha(K)\exp=0.3 \{I2\}$ (2005Sa40).</p> <p>$E\gamma=159.2 \{I4\}$, $I\gamma=10 \{I3\}$ (1978Ne10).</p>

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

<pre>184AU L 242.87 10 (LE3)+</pre> <hr/> <pre>184AU G 113.7 1 16 3M1 5.02 184AUS G KC=4.12 6\$LC=0.692 10\$MC=0.1607 23\$NC+=0.0479 7 184AUS G NC=0.0400 6\$OC=0.00736 11\$PC=0.000497 7 184AU cG M a(K)exp=4.6 {I6}, a(L1)exp=1.0 {I4} (2005Sa40).</pre>	<pre>#Record 8/20 Level "L7:242.87(10) (LE3)+" Line:168 Child:1 Energy=242.87(±.10)keV Spin and parity:Jπ=(LE3)+</pre> <pre>#Record 1/1 Gamma "113.7(1) M1 16(3)" Line:1 E=113.7(±.1)keV Init.Level:L7:242.87(10) (LE3)+</pre> <pre>Final.Level:L4:129.13(8) (1,2)+ [E7-E4=1] E7-E4-Ey = 0.04 ∈ 0.2σ]</pre> <pre>Relative photon intensity:RI=16(3) Multipolarity of transaction:M=M1 Total conversion coeff.:CC=5.02 \$KC=4.12 6 //Theoretical K- conversion coefficient \$LC=0.692 10 //Theoretical L-shell conversion coefficient \$MC=0.1607 23 //Conversion coefficient for M shell; calculated \$NC+=0.0479 7 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.0400 6 //cc for N shell \$OC=0.00736 11 //cc for O shell \$PC=0.000497 7 //cc for P shell #M: α(K)exp=4.6 {I6}, α(L1)exp=1.0 {I4} (2005Sa40).</pre>
<pre>184AU L 254.26 7 2- 184AU CL The intensity imbalance of 12% {I7} at this level may arise 184AU2CL from an incomplete decay scheme and/or the acute dependence of 184AU3CL I(g+ce) from this level on d(26 g). % e+ b{++}<0.25 is expected for 184AU4CL the possible 1U branch to this level, based on log {If{+1u}t}>8.5. 184AU DL 1.1 6 11 6 6.7 3 12 7 1U 184AU2DL EAV=1194 11\$CK=0.7343 20\$CL=0.1325 5\$CM+=0.04269 14</pre>	<pre>#Record 9/20 Level "L8:254.26(7) 2-" Line:173[7] Child:3 Energy=254.26(±.07)keV Spin and parity:Jπ=2- The intensity imbalance of 12% {I7} at this level may arise from an incomplete decay scheme and/or the acute dependence of I(γ+ce) from this level on δ(26γ). % e+ β{+}<0.25 is expected for the possible 1U branch to this level, based on log {If{+1u}t}>8.5.</pre> <pre>1.1 6 11 6 6.7 3 12 7 1UEAV=1194 11\$CK=0.7343 20\$CL=0.1325 5\$CM+=0.04269 14</pre>
<pre>184AU G 25.86 6 19 2M1+E2 0.041 +11-1574 4 184AUS G LC=57 3\$MC=13.4 7\$NC+=3.96 19 184AUS G NC=3.32 16\$OC=0.60 3\$PC=0.0380 6 184AU cG M a(L1)exp=52 {I10}, a(L2)exp=6.3 {I10}, L2:L3=1.00:0.36 184AU2cG {I10}, (M1+M2):M3=1.00:0.04 {I1} (2005Sa40).</pre>	<pre>#Record 1/3 Gamma "25.86(6) M1+E2 19(2)" Line:180[5] E=25.86(±.06)keV Init.Level:L8:254.26(7) 2- Final.Level:L6:228.40(7) 3- [E8-E6=25.86; E8-E6-Ey = 0 ∈ 0.1σ] Relative photon intensity:RI=19(2) Multipolarity of transaction:M=M1+E2 Mixing Ratio:MR=0.041(+.011-.015) Total conversion coeff.:CC=74(±4) \$LC=57 3 //Theoretical L-shell conversion</pre>

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

:
 Show/Hide
 L-Fmt
 G-Fmt
 Interpret.
 #Record
 Hierarchy
 G-plot
 G-plot:ok
 L-plot/V
 L-plot/H
 L-n in/out

```
184AU G 182.5      2   6      2E1          0.0906
184AUS G KC=0.0741 11$LC=0.01273 19$MC=0.00295 5$NC+=0.000861 13
184AUS G NC=0.000726 11$OC=0.0001279 19$PC=6.63E-6 10
184AU cG M | a(K)exp<0.15 (2005Sa40).
```

#Record 2/3 Gamma "182.5(2) E1 6(2)" Line:185[4]
E=182.5($\pm .2$)keV
Init.Level:L8: 254.26(7) 2- Final.Level:L2: 71.87(9)
2+,3+ [E8-E2= 182.39; E8-E2-Ey = -0.11 $\in 0.5\sigma$]

Relative photon intensity:RI=6(2)
Multipolarity of transaction:M=E1
Total conversion coeff.:CC=0.0906
\$KC=0.0741 11 //Theoretical K- conversion
coefficient
\$LC=0.01273 19 //Theoretical L-shell conversion
coefficient
\$MC=0.00295 5 //Conversion coefficient for M
shell; calculated
\$NC+=0.000861 13 //Summed conversion
coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.000726 11 //cc for N shell
\$OC=0.0001279 19 //cc for O shell
\$PC=6.63E-6 10 //cc for P shell
#M: $\alpha(K)exp<0.15$ (2005Sa40).

```
184AU G 185.8      1   12     2(E1)        0.0866
184AUS G KC=0.0709 10$LC=0.01215 17$MC=0.00282 4$NC+=0.000822 12
184AUS G NC=0.000693 10$OC=0.0001221 18$PC=6.36E-6 9
184AU cG M | a(K)exp<0.17 (2005Sa40).
```

#Record 3/3 Gamma "185.8(1) (E1) 12(2)" Line:189[4]
E=185.8($\pm .1$)keV
Init.Level:L8: 254.26(7) 2- Final.Level:L1: 68.46(4)
2+ [E8-E1=185.8; E8-E1-Ey = 0 $\in 0.1\sigma$]

Relative photon intensity:RI=12(2)
Multipolarity of transaction:M=(E1)
Total conversion coeff.:CC=0.0866
\$KC=0.0709 10 //Theoretical K- conversion
coefficient
\$LC=0.01215 17 //Theoretical L-shell conversion
coefficient
\$MC=0.00282 4 //Conversion coefficient for M
shell; calculated
\$NC+=0.000822 12 //Summed conversion
coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.000693 10 //cc for N shell
\$OC=0.0001221 18 //cc for O shell

- Show/Hide
- L-Fmt
 - G-Fmt
 - Interpret.
 - #Record
 - Hierarchy
 - G-plot
 - G-plot:ok
 - L-plot/V
 - L-plot/H
 - L_n in/out

\$PC=6.36E-6 9 //cc for P shell

#M: $\alpha(K) \exp < 0.17$ (2005Sa40).

184AU L 301.86 16 (1-,2-,3-)

? #Record 10/20 Level "L9:301.86(16) (1-,2-,3-)"

Child:2

Energy=301.86($\pm .16$)keV Spin and parity: $J\pi=(1-,2-,3-) Q=?$ (questionable)

184AU G 47.6 2 2.1 5M1 11.39 22
 184AUS G LC=8.75 17\$MC=2.03 4\$NC+=0.605 12
 184AUS G NC=0.506 10\$OC=0.0930 18\$PC=0.00628 12
 184AU cG M | a(L1)exp=8 {I2}, | a(M1)exp=1.9 {I10} (2005Sa40).

? #Record 1/2 Gamma "47.6(2) M1 2.1(5)" Line:1

E=47.6($\pm .2$)keV

Init.Level:L9:301.86(16) (1-,2-,3-)

Final.Level:L8:254.26(7) 2- [E9-E8=47.6;

E $\gamma = 0 \in 0.1\sigma$

Relative photon intensity:RI=2.1(5)

Multipolarity of transaction:M=M1

Total conversion coeff.:CC=11.39($\pm .22$)

\$LC=8.75 17 //Theoretical L-shell conversion coefficient

\$MC=2.03 4 //Conversion coefficient for M shell; calculated

\$NC+=0.605 12 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.506 10 //cc for N shell

\$OC=0.0930 18 //cc for O shell

\$PC=0.00628 12 //cc for P shell

#M: $\alpha(L1) \exp = 8 \{I2\}$, $\alpha(M1) \exp = 1.9 \{I10\}$ (2005Sa40).

184AU G 59.0 2 5 1(E1) 0.346 6

? #Record 2/2 Gamma "59.0(2) (E1) 5(1)" Line:198[4]

E=59.0($\pm .2$)keV

Init.Level:L9:301.86(16) (1-,2-,3-)

Final.Level:L7:242.87(10) (LE3)+ [E9-E7=58.99;

E9-E7-E $\gamma = -0.01 \in 0.1\sigma$

Relative photon intensity:RI=5(1)

Multipolarity of transaction:M=(E1)

Total conversion coeff.:CC=0.346($\pm .006$)

\$LC=0.266 5 //Theoretical L-shell conversion coefficient

\$MC=0.0625 11 //Conversion coefficient for M shell; calculated

\$NC+=0.0178 3 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.0152 3 //cc for N shell

\$OC=0.00252 5 //cc for O shell

\$PC=9.26E-5 15 //cc for P shell

#M: L1 and L3 conversion electrons not observed

(2005Sa40).

184AU L 306.90 12 (1)+

#Record 11/20 Level "L10:306.90(12) (1)+" Line:202

Child:3

184AU E		1.5	4	5.4	15	5.32	12		6.9		19			
184AUS E	EAV=1191	11\$CK=0.638	4\$CL=0.1109	7\$CM+=0.03550	22									
184AU G 220.4	1	26	3M1		0.775									
184AUS G	KC=0.638	9\$LC=0.1059	15\$MC=0.0245	4\$NC+=0.00732	11									
184AUS G	NC=0.00612	9\$OC=0.001125	16\$PC=7.61E-5	11										
184AU cG M	a(K)exp=0.54 {I12}, (a(L1)exp+ a(L2)exp)=0.11 {I3}													
184AUXcG (2005Sa40).														
184AU G 238.4	2	180	30M1		0.624									
184AUS G	KC=0.513	8\$LC=0.0851	12\$MC=0.0197	3\$NC+=0.00588	9									
184AUS G	NC=0.00491	7\$OC=0.000904	13\$PC=6.11E-5	9										
184AU cG M	a(K)exp=0.46 {I11}, a(L)exp=0.08 {I2}, a(M)exp=0.02 {I1}													
184AUXcG (2005Sa40).														

Energy=306.90($\pm .12$)keV Spin and parity: $J\pi=(1)+$

#Record 1/3 EC Line:203[2]

Intensity of β^+ -decay branch: IB=1.5($\pm .4$)

Intensity of electron capture branch:IE=5.4(± 1.5)

The log ft for ($\varepsilon + \beta^+$) transition :LOGFT=5.32($\pm .12$)

Total ($\varepsilon + \beta^+$) decay intensity:TI=6.9(± 1.9)

\$EAV=1191 11 //Average energy of the β^+ spectrum

\$CK=0.638 4 //Calculated fraction of decay by electron capture from the K shell

\$CL=0.1109 7 //Calculated fraction of decay by electron capture from the L shell

\$CM+=0.03550 22

#Record 2/3 Gamma "220.4(1) M1 26(3)" Line:205[5]

E=220.4($\pm .1$)keV

Init.Level:L10:306.90(12) (1)+

Final.Level:L3:86.50(8) (2,3)+ [E10-E3=220.4; E10-E3-Ey = 0 $\in 0.1\sigma$]

Relative photon intensity:RI=26(3)

Multipolarity of transaction:M=M1

Total conversion coeff.:CC=0.775

\$KC=0.638 9 //Theoretical K- conversion coefficient

\$LC=0.1059 15 //Theoretical L-shell conversion coefficient

\$MC=0.0245 4 //Conversion coefficient for M shell; calculated

\$NC+=0.00732 11 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.00612 9 //cc for N shell

\$OC=0.001125 16 //cc for O shell

\$PC=7.61E-5 11 //cc for P shell

#M: $\alpha(K)exp=0.54$ {I12}, $(\alpha(L1)exp+\alpha(L2)exp)=0.11$ {I3} (2005Sa40).

#Record 3/3 Gamma "238.4(2) M1 180(30)" Line:210[5]

E=238.4($\pm .2$)keV

Init.Level:L10:306.90(12) (1)+

Final.Level:L1:68.46(4) 2+ [E10-E1=238.44; E10-E1-Ey = 0.04 $\in 0.2\sigma$]

Relative photon intensity:RI=180(30)

Multipolarity of transaction:M=M1

Total conversion coeff.:CC=0.624

\$KC=0.513 8 //Theoretical K- conversion coefficient

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

$\$LC=0.0851$ 12 //Theoretical L-shell conversion coefficient
 $\$MC=0.0197$ 3 //Conversion coefficient for M shell; calculated
 $\$NC+=0.00588$ 9 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $\$NC=0.00491$ 7 //cc for N shell
 $\$OC=0.000904$ 13 //cc for O shell
 $\$PC=6.11E-5$ 9 //cc for P shell
#M: $\alpha(K)\exp=0.46$ {I11}, $\alpha(L)\exp=0.08$ {I2}, $\alpha(M)\exp=0.02$ {I1} (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU L 320.50 10 2+ 2 NS LT
184AU cL T from |g delayed coin (1978Ne10).

#Record 12/20 Level "L11:320.50(10) 2+" Line:215[2]
Child:1
Energy=320.50($\pm .10$)keV Spin and parity: $J\pi=2+$ $T_{1/2}<2\cdot10^{-9}$ sec
#T: from γ delayed coin (1978Ne10).

184AU G 92.0 1 53 6E1 0.511
184AUS G KC=0.407 6\$LC=0.0794 12\$MC=0.0185 3\$NC+=0.00533 8
184AUS G NC=0.00453 7\$OC=0.000774 11\$PC=3.33E-5 5
184AU cG E|g=91.5 {I5}, I|g=47 {I8} (1978Ne10).
184AU cG M |a(L1)exp|<0.1, |a(L3)exp|<0.05 (2005Sa40).

#Record 1/1 Gamma "92.0(1) E1 53(6)" Line:217[5]
E=92.0($\pm .1$)keV
Init.Level:L11:320.50(10) 2+
Final.Level:L6:228.40(7) 3- [E11-E6=92.1; E11-E6-Ey = 0.1 \in 0.5 σ]
Relative photon intensity:RI=53(6)
Multipolarity of transition:M=E1
Total conversion coeff.:CC=0.511
\$KC=0.407 6 //Theoretical K- conversion coefficient
\$LC=0.0794 12 //Theoretical L-shell conversion coefficient
\$MC=0.0185 3 //Conversion coefficient for M shell; calculated
\$NC+=0.00533 8 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.00453 7 //cc for N shell
\$OC=0.000774 11 //cc for O shell
\$PC=3.33E-5 5 //cc for P shell
Ey=91.5 {I5}, ly=47 {I8} (1978Ne10).
#M: $\alpha(L1)\exp\leq 0.1$, $\alpha(L3)\exp\leq 0.05$ (2005Sa40).

184AU L 331.40 8 1+,2+

#Record 13/20 Level "L12:331.40(8) 1+,2+" Line:222
Child:3

Energy=331.40($\pm .08$)keV Spin and parity: $J\pi=1+,2+$
#Record 1/3 Gamma "244.8(2) [M1,E2] 9(2)" Line:223[3]
E=244.8($\pm .2$)keV

184AU G 244.8 2 9 2[M1,E2] 0.39 20
184AUS G KC=0.29 19\$LC=0.073 6\$MC=0.0177 7\$NC+=0.0052 3

184AUS G NC=0.00439 19\$OC=0.00077 8\$PC=3.4E-5 23

184AU G 259.5 1 86 10M1 0.494
 184AUS G KC=0.406 6\$LC=0.0672 10\$MC=0.01558 22\$NC+=0.00465 7
 184AUS G NC=0.00388 6\$OC=0.000714 10\$PC=4.83E-5 7
 184AU cG M |a(K)exp=0.39 {I7}, (|a(L1)exp+|a(L2)exp)=0.06 {I7}
 184AU2cG (2005Sa40); |a(K)exp|?0.25 (1970FIZZ).
 184AU cG E|g=259.0 {I1}, I|g=84 {I10} (1978Ne10).

184AU G 262.9 1 62 8M1 0.476
 184AUS G KC=0.392 6\$LC=0.0649 10\$MC=0.01503 22\$NC+=0.00448 7
 184AUS G NC=0.00375 6\$OC=0.000689 10\$PC=4.66E-5 7
 184AU cG M |a(K)exp=0.38 {I7}, (|a(L1)exp+|a(L2)exp)=0.07 {I2}
 184AU2cG (2005Sa40); |a(K)exp|?0.25 (1970FIZZ).
 184AU cG E|g=262.3 {I1}, I|g=67 {I8} (1978Ne10).

Init.Level:L12:331.40(8) 1+,2+
 Final.Level:L3:86.50(8) (2,3)+ [E12-E3=2]
 $E_{12}-E_3-E_y = 0.1 \in 0.5\sigma$
 Relative photon intensity:RI=9(2)
 Multipolarity of transaction:M=[M1,E2]
 Total conversion coeff.:CC=0.39($\pm .20$)
 $$KC=0.29$ 19 //Theoretical K- conversion coefficient
 $$LC=0.073$ 6 //Theoretical L-shell conversion coefficient
 $$MC=0.0177$ 7 //Conversion coefficient for shell; calculated
 $$NC+=0.0052$ 3 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $$NC=0.00439$ 19 //cc for N shell
 $$OC=0.00077$ 8 //cc for O shell
 $$PC=3.4E-5$ 23 //cc for P shell
#Record 2/3 Gamma "259.5(1) M1 86(10)" Line:226[6]
 $E=259.5(\pm .1)\text{keV}$
 Init.Level:L12:331.40(8) 1+,2+
 Final.Level:L2:71.87(9) 2+,3+ [E12-E2=259.53;
 $E_{12}-E_2-E_y = 0.03 \in 0.2\sigma$
 Relative photon intensity:RI=86(10)
 Multipolarity of transaction:M=M1
 Total conversion coeff.:CC=0.494
 $$KC=0.406$ 6 //Theoretical K- conversion coefficient
 $$LC=0.0672$ 10 //Theoretical L-shell conversion coefficient
 $$MC=0.01558$ 22 //Conversion coefficient for M shell; calculated
 $$NC+=0.00465$ 7 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $$NC=0.00388$ 6 //cc for N shell
 $$OC=0.000714$ 10 //cc for O shell
 $$PC=4.83E-5$ 7 //cc for P shell
#M: $\alpha(K)\exp=0.39$ {I7}, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.06$ {I7} (2005Sa40); $\alpha(K)\exp\approx 0.25$ (1970FIZZ).
 $E_y=259.0$ {I1}, $I_y=84$ {I10} (1978Ne10).
#Record 3/3 Gamma "262.9(1) M1 62(8)" Line:232[6]
 $E=262.9(\pm .1)\text{keV}$
 Init.Level:L12:331.40(8) 1+,2+
 Final.Level:L1:68.46(4) 2+ [E12-E1=262.94; E12-Ey=0.04 $\in 0.5\sigma$]
 Relative photon intensity:RI=62(8)
 Multipolarity of transaction:M=M1
 Total conversion coeff.:CC=0.476

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

$\$KC=0.392\ 6$ //Theoretical K- conversion coefficient
 $\$LC=0.0649\ 10$ //Theoretical L-shell conversion coefficient
 $\$MC=0.01503\ 22$ //Conversion coefficient shell; calculated
 $\$NC+=0.00448\ 7$ //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $\$NC=0.00375\ 6$ //cc for N shell
 $\$OC=0.000689\ 10$ //cc for O shell
 $\$PC=4.66E-5\ 7$ //cc for P shell
 #M: $\alpha(K)\exp=0.38$ {I7}, $(|\alpha(L1)\exp| + |\alpha(L2)\exp|)=0.$ (2005Sa40); $\alpha(K)\exp \approx 0.25$ (1970FiZZ).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L-n in/out

$E\gamma=262.3$ {I1}, $I\gamma=67$ {I8} (1978Ne10).

184AU L 364.19 9 1+

184AU E 0.74 21 2.9 8 5.58 12 3.6 10
 184AUS E EAV=1166 11\$CK=0.647 4\$CL=0.1125 7\$CM+=0.03601 22

#Record 14/20 Level "L13:364.19(9) 1+" Line:238

Child:3

Energy=364.19($\pm .09$)keV Spin and parity: $J\pi=1+$

#Record 1/3 EC Line:239[2]

Intensity of β^+ -decay branch: IB=0.74($\pm .21$)

Intensity of electron capture branch: IE=2.9($\pm .8$)

The log ft for ($\varepsilon + \beta^+$) transition
 $:LOGFT=5.58(\pm .12)$

Total ($\varepsilon + \beta^+$) decay intensity: TI=3.6(± 1.0)

\$EAV=1166 11 //Average energy of the β^+ spectrum

\$CK=0.647 4 //Calculated fraction of decay by electron capture from the K shell

\$CL=0.1125 7 //Calculated fraction of decay by electron capture from the L shell

\$CM+=0.03601 22

#Record 2/3 Gamma "277.7(2) M1 15(3)" Line:241[5]

E=277.7($\pm .2$)keV

Init.Level:L13:364.19(9) 1+

Final.Level:L3:86.50(8) (2,3)+ [E13-E3=277.69;
 $E13-E3-Ey = -0.01 \in 0.1\sigma$]

Relative photon intensity: RI=15(3)

Multipolarity of transition: M=M1

Total conversion coeff.: CC=0.410

\$KC=0.337 5 //Theoretical K- conversion coefficient

\$LC=0.0558 8 //Theoretical L-shell conversion coefficient

\$MC=0.01292 19 //Conversion coefficient for M shell; calculated

\$NC+=0.00385 6 //Summed conversion

184AU G 277.7 2 15 3M1 0.410

184AUS G KC=0.337 5\$LC=0.0558 8\$MC=0.01292 19\$NC+=0.00385 6

184AUS G NC=0.00322 5\$OC=0.000592 9\$PC=4.01E-5 6

184AU cG M | $\alpha(K)\exp=0.37$ {I9}, $(|\alpha(L1)\exp| + |\alpha(L2)\exp|)=0.04$ {I2}

184AUxcG (2005Sa40).

			coefficients of N-, O-, P-, Q- and R-shells \$NC=0.00322 5 //cc for N shell \$OC=0.000592 9 //cc for O shell \$PC=4.01E-5 6 //cc for P shell #M: $\alpha(K)\exp=0.37$ {I9}, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.$ (2005Sa40).
184AU G 295.7 1 100 15M1 0.345	184AUS G KC=0.284 4\$LC=0.0469 7\$MC=0.01087 16\$NC+=0.00324 5	184AUS G NC=0.00271 4\$OC=0.000498 7\$PC=3.38E-5 5	#Record 3/3 Gamma "295.7(1) M1 100(15)" Line:253 E=295.7($\pm .1$)keV Init.Level:L13:364.19(9) 1+ Final.Level:L1:68.46(4) 2+ [E13-E1=295. E1-Ey =0.03 \in 0.2 σ] Relative photon intensity:RI=100(15) Multipolarity of transaction:M=M1 Total conversion coeff.:CC=0.345 \$KC=0.284 4 //Theoretical K- conversion coefficient \$LC=0.0469 7 //Theoretical L-shell conversion coefficient \$MC=0.01087 16 //Conversion coefficient for M shell; calculated \$NC+=0.00324 5 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.00271 4 //cc for N shell \$OC=0.000498 7 //cc for O shell \$PC=3.38E-5 5 //cc for P shell #M: $\alpha(K)\exp=0.28$ {I8}, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.08$ {I3} (2005Sa40).
184AU cG M a(K)exp=0.28 {I8}, (a(L1)exp+ a(L2)exp)=0.08 {I3}	184AUxcG (2005Sa40).	184AU cG E g=295.1 {I1}, I g=160 {I20} (1978Ne10), a(K)exp=0.04 {I2}	E γ =295.1 {I1}, I γ =160 {I20} (1978Ne10), $\alpha(K)\exp=0.04$ {I2}(1970FIZZ) for line which may be a 294.8 γ +295.7 γ doublet.

184AU L 381.50 9 1+,2+	#Record 15/20 Level "L14:381.50(9) 1+,2+" Line:253 Child:6 Energy=381.50($\pm .09$)keV Spin and parity: $J\pi=1+,2+$ #Record 1/6 Gamma "50.1(1) M1 7(1)" Line:254[5] E=50.1($\pm .1$)keV Init.Level:L14:381.50(9) 1+,2+ Final.Level:L12:331.40(8) 1+,2+ [E14-E12=50.1; E14-E12-Ey =0 \in 0 σ] Relative photon intensity:RI=7(1) Multipolarity of transaction:M=M1 Total conversion coeff.:CC=9.80 \$LC=7.53 12 //Theoretical L-shell conversion coefficient \$MC=1.75 3 //Conversion coefficient for M shell;
184AU G 50.1 1 7 1M1 9.80	184AUS G LC=7.53 12\$MC=1.75 3\$NC+=0.521 8 184AUS G NC=0.435 7\$OC=0.0800 13\$PC=0.00540 9 184AU cG M a(L1)exp=8.5 {I15}, a(L1)exp: a(L2)exp=1.00:0.13 {I2} 184AUxcG (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L-n in/out

										calculated	Show/Hide
184AU G 74.5 2 33 4M1	3.07	@	\$NC+=0.521 8 //Summed conversion coef of N-, O-, P-, Q- and R-shells	<input type="checkbox"/> L-Fmt							
184AUS G LC=2.36 4\$MC=0.547 9\$NC+=0.163 3			\$NC=0.435 7 //cc for N shell	<input type="checkbox"/> G-Fmt							
184AUS G NC=0.1362 22\$OC=0.0250 4\$PC=0.00169 3			\$OC=0.0800 13 //cc for O shell	<input checked="" type="checkbox"/> Interpret.							
184AU cG RI from g g coin; I g=40 {I4} for doublet (2005Sa40).			\$PC=0.00540 9 //cc for P shell	<input checked="" type="checkbox"/> #Record							
184AU cG M a(L1)exp=2.4 {I4}, M1:M2:M3=1.00:0.21:0.09 (2005Sa40) for 184AU2cG doublet dominated by this transition.			#M: $\alpha(L1)\exp=8.5 \{I15\}$, $\alpha(L1)\exp:\alpha(L2)\exp=1.0 \{I2\}$ (2005Sa40).	<input type="checkbox"/> Hierarchy							
184AU G 127.3 2 27 4E1	0.225		#Record 2/6 Gamma "74.5(2) M1 33(4)" Line:2 E=74.5($\pm .2$)keV	<input checked="" type="checkbox"/> G-plot							
184AUS G KC=0.182 3\$LC=0.0330 5\$MC=0.00768 12\$NC+=0.00223 4			Init.Level:L14: 381.50(9) 1+,2+ Final.Level:L10: 306.90(12) (1)+ [E14-E10= $\pm .5$] E14-E10-Ey = 0.1 $\in 0.5\sigma$	<input type="checkbox"/> G-plot:ok							
184AUS G NC=0.00188 3\$OC=0.000327 5\$PC=1.552E-5 23			Relative photon intensity:RI=33(4) Multipolarity of transaction:M=M1 Total conversion coeff.:CC=3.07 \$LC=2.36 4 //Theoretical L-shell conversion coefficient	<input type="checkbox"/> L-plot/V							
184AU cG M a(K)exp <0.4, a(L3)exp <0.1 (2005Sa40).			\$MC=0.547 9 //Conversion coefficient for M shell; calculated \$NC+=0.163 3 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.1362 22 //cc for N shell \$OC=0.0250 4 //cc for O shell \$PC=0.00169 3 //cc for P shell	<input type="checkbox"/> L-plot/H							
			#RI: from $\gamma\gamma$ coin; I γ =40 {I4} for doublet (2005Sa40).	<input type="checkbox"/> L_n in/out							
			#M: $\alpha(L1)\exp=2.4 \{I4\}$, M1:M2:M3=1.00:0.21:0.09 (2005Sa40) for doublet dominated by this transition.								
184AU G 127.3 2 27 4E1	0.225		#Record 3/6 Gamma "127.3(2) E1 27(4)" Line:265[4] E=127.3($\pm .2$)keV								
184AUS G KC=0.182 3\$LC=0.0330 5\$MC=0.00768 12\$NC+=0.00223 4			Init.Level:L14: 381.50(9) 1+,2+ Final.Level:L8: 254.26(7) 2- [E14-E8=127.24; E14-E8-Ey = -0.06 $\in 0.5\sigma$]								
184AUS G NC=0.00188 3\$OC=0.000327 5\$PC=1.552E-5 23			Relative photon intensity:RI=27(4) Multipolarity of transaction:M=E1 Total conversion coeff.:CC=0.225 \$KC=0.182 3 //Theoretical K- conversion coefficient								
184AU cG M a(K)exp <0.4, a(L3)exp <0.1 (2005Sa40).			\$LC=0.0330 5 //Theoretical L-shell conversion coefficient \$MC=0.00768 12 //Conversion coefficient for M shell; calculated \$NC+=0.00223 4 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.00188 3 //cc for N shell \$OC=0.000327 5 //cc for O shell								

										\$PC=1.552E-5 23 //cc for P shell	⋮
										#M: $\alpha(K) \exp \leq 0.4$, $\alpha(L3) \exp \leq 0.1$ (2005Sa40).	Show/Hide
184AU	G	138.5	2	6	2M1	2.86				<input type="checkbox"/> L-Fmt	
184AUS	G	KC=2.35	4\$LC=0.393	6\$MC=0.0912	14\$NC+=0.0272	4				<input type="checkbox"/> G-Fmt	
184AUS	G	NC=0.0227	4\$OC=0.00418	7\$PC=0.000282	5					<input checked="" type="checkbox"/> Interpret.	
184AU	cG	M	a(K)exp=2.9	{I18}	(2005Sa40).					<input checked="" type="checkbox"/> #Record	
										<input type="checkbox"/> Hierarchy	
										<input checked="" type="checkbox"/> G-plot	
										<input type="checkbox"/> G-plot:ok	
										<input type="checkbox"/> L-plot/V	
										<input type="checkbox"/> L-plot/H	
										<input type="checkbox"/> L_n in/out	
184AU	G	294.8	3	20	6(M1)	0.348					
184AUS	G	KC=0.287	4\$LC=0.0473	7\$MC=0.01096	16\$NC+=0.00327	5					
184AUS	G	NC=0.00273	4\$OC=0.000502	8\$PC=3.40E-5	5						
184AU	cG	M	a(K)exp=0.30	{I15}	(2005Sa40).						
184AU	cG		See comment on 295.7 g.								
										#Record 5/6 Gamma "294.8(3) (M1) 20(6)" Line:273[5]	
										E=294.8($\pm .3$)keV	
										Init.Level:L14: 381.50(9) 1+,2+	
										Final.Level:L3: 86.50(8) (2,3)+ [E14-E3=295.0;	
										E14-E3-Ey =0.2 $\in 1\sigma$]	
										Relative photon intensity:RI=20(6)	
										Multipolarity of transaction:M=(M1)	
										Total conversion coeff.:CC=0.348	
										\$KC=0.287 4 //Theoretical K- conversion coefficient	
										\$LC=0.0473 7 //Theoretical L-shell conversion coefficient	
										\$MC=0.01096 16 //Conversion coefficient for M shell; calculated	
										\$NC+=0.00327 5 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells	
										\$NC=0.00273 4 //cc for N shell	
										\$OC=0.000502 8 //cc for O shell	
										\$PC=3.40E-5 5 //cc for P shell	
										#M: $\alpha(K) \exp = 0.30$ {I15} (2005Sa40).	
										See comment on 295.7 γ .	
184AU	G	313.1	2	33	5M1	0.296				#Record 6/6 Gamma "313.1(2) M1 33(5)" Line:278[5]	
184AUS	G	KC=0.243	4\$LC=0.0401	6\$MC=0.00929	14\$NC+=0.00277	4				E=313.1($\pm .2$)keV	

184AUS G NC=0.00231 4\$OC=0.000426 6\$PC=2.89E-5 4 184AU cG M a(K)exp=0.22 {I6}, (a(L1)exp+ a(L2)exp)=0.05 {I2} 184AUxcG (2005Sa40).	Init.Level:L14:381.50(9) 1+,2+ Final.Level:L1:68.46(4) 2+ [E14-E1=313. E1-Ey =-0.06±0.5σ] Relative photon intensity:RI=33(5) Multipolarity of transaction:M=M1 Total conversion coeff.:CC=0.296 \$KC=0.243 4 //Theoretical K- conversion coefficient \$LC=0.0401 6 //Theoretical L-shell conversion coefficient \$MC=0.00929 14 //Conversion coefficient shell; calculated \$NC+=0.00277 4 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.00231 4 //cc for N shell \$OC=0.000426 6 //cc for O shell \$PC=2.89E-5 4 //cc for P shell #M: α(K)exp=0.22 {I6}, (α(L1)exp+α(L2)exp)=0.05 {I2} (2005Sa40).
--	---

184AU L 409.70 22	#Record 16/20 Level "L15:409.70(22)" Line:283 Child:2 Energy=409.70(±.22)keV #Record 1/2 EC Line:284[2] Intensity of β+-decay branch: IB=0.051(±.022) Intensity of electron capture branch:IE=0.21(±.09) The log ft for (ε + β+) transition :LOGFT=6.71(±.19) Total (ε + β+) decay intensity:TI=0.26(±.11) \$EAV=1145 11 //Average energy of the β+ spectrum \$CK=0.654 4 //Calculated fraction of decay by electron capture from the K shell \$CL=0.1138 7 //Calculated fraction of decay by electron capture from the L shell \$CM+=0.03642 22
184AU E 0.051 22 0.21 9 6.71 19 0.26 11 184AUS E EAV=1145 11\$CK=0.654 4\$CL=0.1138 7\$CM+=0.03642 22	#Record 1/2 EC Line:284[2] Intensity of β+-decay branch: IB=0.051(±.022) Intensity of electron capture branch:IE=0.21(±.09) The log ft for (ε + β+) transition :LOGFT=6.71(±.19) Total (ε + β+) decay intensity:TI=0.26(±.11) \$EAV=1145 11 //Average energy of the β+ spectrum \$CK=0.654 4 //Calculated fraction of decay by electron capture from the K shell \$CL=0.1138 7 //Calculated fraction of decay by electron capture from the L shell \$CM+=0.03642 22
184AU G 181.3 2 6 2 E1,E2 0.31 22 184AUS G KC=0.15 8\$LC=0.12 12\$MC=0.03 3\$NC+=0.010 9 184AU cG M a(K)exp<0.3 (2005Sa40) implies mult=E1,E2.	#Record 2/2 Gamma "181.3(2) E1,E2 6(2)" Line:286[3] E=181.3(±.2)keV Init.Level:L15:409.70(22) Final.Level:L6:228.40(7) 3- [E15-E6=181.3; E15-E6-Ey =0±0.1σ] Relative photon intensity:RI=6(2) Multipolarity of transaction:M=E1,E2 Total conversion coeff.:CC=0.31(±.22) \$KC=0.15 8 //Theoretical K- conversion coefficient \$LC=0.12 12 //Theoretical L-shell conversion

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

coefficient
 $\$MC=0.03\ 3$ //Conversion coefficient for N shell; calculated
 $\$NC+=0.010\ 9$ //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
#M: $\alpha(K)\exp<0.3$ (2005Sa40) implies mult=E1,E2

Show/Hide:
 L-Fmt
 G-Fmt
 Interpret.
 #Record
 Hierarchy
 G-plot
 G-plot:ok
 L-plot/V
 L-plot/H
 L-n in/out

184AU L 477.34 19 (LE3)+

184AU E 0.33 7 1.5 3 5.85 10 1.8 4
184AUS E EAV=1115 11\$CK=0.664 4\$CL=0.1156 7\$CM+=0.03701 21

#Record 17/20 Level "L16:477.34(19) (LE3)+" Line:290[2]
Child:3
Energy=477.34(± 19)keV Spin and parity:J π =(LE3)+
#Record 1/3 EC Line:290[2]

Intensity of β^+ -decay branch: IB=0.33($\pm .07$)
Intensity of electron capture branch: IE=1.5($\pm .3$)
The log ft for ($\varepsilon + \beta^+$) transition :LOGFT=5.85($\pm .10$)
Total ($\varepsilon + \beta^+$) decay intensity: TI=1.8($\pm .4$)
\$EAV=1115 11 //Average energy of the β^+ spectrum
\$CK=0.664 4 //Calculated fraction of decay by electron capture from the K shell
\$CL=0.1156 7 //Calculated fraction of decay by electron capture from the L shell
\$CM+=0.03701 21

184AU G 234.5 3 22 5(M1+E2) 0.44 22
184AUS G KC=0.33 22\$LC=0.084 5\$MC=0.0205 4\$NC+=0.00600 18
184AUS G NC=0.00508 10\$OC=0.00089 7\$PC=4.E-5 3
184AU cG M |a(K)exp=0.3 {I2}, |a(L)exp<0.1 (2005Sa40).

#Record 2/3 Gamma "234.5(3) (M1+E2) 22(5)" Line:292[4]
E=234.5($\pm .3$)keV
Init.Level:L16:477.34(19) (LE3)+
Final.Level:L7:242.87(10) (LE3)+ [E16-E7=234.47; E16-E7-E γ =-0.03 $\in 0.1\sigma$]
Relative photon intensity: RI=22(5)
Multipolarity of transaction: M=(M1+E2)
Total conversion coeff.: CC=0.44($\pm .22$)
\$KC=0.33 22 //Theoretical K- conversion coefficient
\$LC=0.084 5 //Theoretical L-shell conversion coefficient
\$MC=0.0205 4 //Conversion coefficient for M shell; calculated
\$NC+=0.00600 18 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.00508 10 //cc for N shell
\$OC=0.00089 7 //cc for O shell
\$PC=4.E-5 3 //cc for P shell
#M: $\alpha(K)\exp=0.3 \{I2\}$, $\alpha(L)\exp<0.1$ (2005Sa40).

184AU G 348.2 2 18 3M1 0.222
184AUS G KC=0.183 3\$LC=0.0300 5\$MC=0.00695 10\$NC+=0.00207 3

#Record 3/3 Gamma "348.2(2) M1 18(3)" Line:296[4]
E=348.2($\pm .2$)keV

184AUS G NC=0.001732 25\$OC=0.000319 5\$PC=2.16E-5 3
 184AU cG M |a(K)exp=0.17 {I5}, K/L|?5.6 (2005Sa40).

Init.Level:L16:477.34(19) (LE3)+
 Final.Level:L4:129.13(8) (1,2)+ [E16-E4=
 E16-E4-Ey =0.01±0.1σ]
 Relative photon intensity:RI=18(3)
 Multipolarity of transaction:M=M1
 Total conversion coeff.:CC=0.222
 \$KC=0.183 3 //Theoretical K- conversion
 coefficient
 \$LC=0.0300 5 //Theoretical L-shell conver
 coefficient
 \$MC=0.00695 10 //Conversion coefficient
 shell; calculated
 \$NC+=0.00207 3 //Summed conversion
 coefficients of N-, O-, P-, Q- and R-shells
 \$NC=0.001732 25 //cc for N shell
 \$OC=0.000319 5 //cc for O shell
 \$PC=2.16E-5 3 //cc for P shell
 #M: α(K)exp=0.17 {I5}, K/L≈5.6 (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU L 486.10 22 LE3+

#Record 18/20 Level "L17:486.10(22) LE3+" Line:300
 Child:3

Energy=486.10(±.22)keV Spin and
 parity:Jπ=LE3+

#Record 1/3 EC Line:301[2]
 Intensity of β⁺-decay branch: IB=0.20(±.09)
 Intensity of electron capture branch:IE=0.9(±.4)
 The log ft for (ε + β⁺) transition
 :LOGFT=6.06(±.20)

Total (ε + β⁺) decay intensity:TI=1.1(±.5)
 \$EAV=1111 11 //Average energy of the β+
 spectrum

\$CK=0.665 4 //Calculated fraction of decay by
 electron capture from the K shell
 \$CL=0.1158 7 //Calculated fraction of decay by
 electron capture from the L shell
 \$CM+=0.03709 21

#Record 2/3 Gamma "104.6(2) M1 2.8(6)" Line:303[4]
 E=104.6(±.2)keV

Init.Level:L17:486.10(22) LE3+
 Final.Level:L14:381.50(9) 1+,2+ [E17-
 E14=104.6; E17-E14-Ey =0±0σ]

Relative photon intensity:RI=2.8(6)
 Multipolarity of transaction:M=M1
 Total conversion coeff.:CC=6.38
 \$KC=5.23 8 //Theoretical K- conversion
 coefficient
 \$LC=0.880 14 //Theoretical L-shell conversion

184AU E 0.20 9 0.9 4 6.06 20 1.1 5
 184AUS E EAV=1111 11\$CK=0.665 4\$CL=0.1158 7\$CM+=0.03709 21

184AU G 104.6 2 2.8 6M1 6.38

184AUS G KC=5.23 8\$LC=0.880 14\$MC=0.204 3\$NC+=0.0609 10

184AUS G NC=0.0509 8\$OC=0.00936 14\$PC=0.000632 10

184AU cG M |a(K)exp=6.8 {I20}, |a(L1)exp=1.3 {I6} (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L-n in/out

coefficient
 $\$MC=0.204\ 3$ //Conversion coefficient for calculated
 $\$NC+=0.0609\ 10$ //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $\$NC=0.0509\ 8$ //cc for N shell
 $\$OC=0.00936\ 14$ //cc for O shell
 $\$PC=0.000632\ 10$ //cc for P shell
#M: $\alpha(K)\exp=6.8$ {I20}, $\alpha(L1)\exp=1.3$ {I6} (2005Sa40).

#Record 3/3 Gamma "184.1(2) M2 3(1)" Line:3
E=184.1($\pm .2$)keV
Init.Level:L17:486.10(22) LE3+
Final.Level:L9:301.86(16) (1,-2,-3-) [E17-E9=184.24; E17-E9-Ey=0.14 $\in 0.5\sigma$]
Relative photon intensity:RI=3(1)
Multipolarity of transaction:M=M2
Total conversion coeff.:CC=6.76
\$KC=4.94 8 //Theoretical K- conversion coefficient
\$LC=1.373 20 //Theoretical L-shell conversion coefficient
\$MC=0.340 5 //Conversion coefficient for M shell; calculated
\$NC+=0.1019 15 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
\$NC=0.0855 13 //cc for N shell
\$OC=0.01546 23 //cc for O shell
\$PC=0.000925 14 //cc for P shell
#M: $\alpha(K)\exp=6$ {I2}, $(\alpha(L1)\exp+\alpha(L2)\exp)=1.7$ {I8} (2005Sa40).

184AU	G	184.1	2	3	1M2	6.76	
184AUS	G	KC=4.94	8\$LC=1.373	20\$MC=0.340	5\$NC+=0.1019	15	
184AUS	G	NC=0.0855	13\$OC=0.01546	23\$PC=0.000925	14		
184AU	cG	M	a(K)exp=6 {I2}, (a(L1)exp+ a(L2)exp)=1.7 {I8} (2005Sa40).				

184AU	L	490.91	7	1+	2 NS	LT	
184AU	cL	T	from g delayed coin (1978Ne10).				

#Record 19/20 Level "L18:490.91(7) 1+" Line:311[2]
Child:11
Energy=490.91($\pm .07$)keV Spin and parity: $J\pi=1+$ $T_{1/2}<2\cdot 10^{-9}$ sec
#T: from γ delayed coin (1978Ne10).

184AU	E	11	1	47	6	4.33	6	58	7
184AUS	E	EAV=1109	11\$CK=0.666	4\$CL=0.1160	7\$CM+=0.03713	21			

#Record 1/11 EC Line:313[2]
Intensity of β^+ -decay branch: IB=11(± 1)
Intensity of electron capture branch:IE=47(± 6)
The log ft for ($\varepsilon + \beta^+$) transition :LOGFT=4.33($\pm .06$)
Total ($\varepsilon + \beta^+$) decay intensity:TI=58(± 7)
\$EAV=1109 11 //Average energy of the β^+ spectrum
\$CK=0.666 4 //Calculated fraction of decay by

										electron capture from the K shell \$CL=0.1160 7 //Calculated fraction of dec
184AU G 109.4 1 15 3 M1(+E0) 18 AP										
184AU cG M a(K)exp=14 {I4}, a(L1)exp=2.3 {I5} (2005Sa40).										
184AU2cG a(K)=4.78 {I15}; a(L)=0.802 {I24}; a(M)=0.186 {I6}; a(N+..)=0.0593										
184AUxCG {I18} if pure M1.										
184AU cG CC approximate value; from a(K)exp x 1.3.										
184AU G 126.7 1 13 3M1(+E2) 2.8 9										
184AUS G KC=1.8 13\$LC=0.8 4\$MC=0.21 9\$NC+=0.060 25										
184AUS G NC=0.051 22\$OC=0.009 4\$PC=0.00021 16										
184AU cG M a(K)exp=2.0 {I6}, (a(L1)exp+ a(L2)exp)=0.62 {I15},										
184AUxCG a(L3)exp <0.15 (2005Sa40).										
184AU cG E g=126.5 {I3}, I g=14 {I4} (1978Ne10).										
184AU G 159.4 1 60 8M1 1.92										
184AUS G KC=1.579 23\$LC=0.264 4\$MC=0.0611 9\$NC+=0.0182 3										
184AUS G NC=0.01524 22\$OC=0.00280 4\$PC=0.000189 3										
184AU cG M a(K)exp=1.4 {I4}, (a(L1)exp+ a(L2)exp)=0.27 {I6}										
184AUxCG (2005Sa40).										

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU cG	E g=159.1 {I4}, I g=60 {I10} (1978Ne10).	Relative photon intensity:RI= 60(8) Multipolarity of transaction:M=M1 Total conversion coeff.:CC= 1.92 \$KC=1.579 23 //Theoretical K- conversion coefficient \$LC=0.264 4 //Theoretical L-shell conversion coefficient \$MC=0.0611 9 //Conversion coefficient for shell; calculated \$NC+=0.0182 3 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.01524 22 //cc for N shell \$OC=0.00280 4 //cc for O shell \$PC=0.000189 3 //cc for P shell #M: $\alpha(K)\exp=1.4$ {I4}, $(\alpha(L1)\exp+\alpha(L2)\exp)=0.27$ {I6} (2005Sa40). E γ =159.1 {I4}, I γ =60 {I10} (1978Ne10).	<input checked="" type="checkbox"/> Show/Hide <input type="checkbox"/> L-Fmt <input type="checkbox"/> G-Fmt <input checked="" type="checkbox"/> Interpret. <input checked="" type="checkbox"/> #Record <input type="checkbox"/> Hierarchy <input checked="" type="checkbox"/> G-plot <input type="checkbox"/> G-plot:ok <input type="checkbox"/> L-plot/V <input type="checkbox"/> L-plot/H <input type="checkbox"/> L_n in/out
184AU G 170.3 1 24 4M1	1.595	#Record 5/11 Gamma "170.3(1) M1 24(4)" Line:332[5] E=170.3($\pm .1$)keV Init.Level:L18:490.91(7) 1+ Final.Level:L11:320.50(10) 2+ [E18-E11=170.41; E18-E11-E γ =0.11 \in 0.5 σ] Relative photon intensity:RI= 24(4) Multipolarity of transaction:M=M1 Total conversion coeff.:CC= 1.595 \$KC=1.310 19 //Theoretical K- conversion coefficient \$LC=0.219 3 //Theoretical L-shell conversion coefficient \$MC=0.0507 8 //Conversion coefficient for M shell; calculated \$NC+=0.01511 22 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells \$NC=0.01263 18 //cc for N shell \$OC=0.00232 4 //cc for O shell \$PC=0.0001569 23 //cc for P shell #M: $\alpha(K)\exp=1.3$ {I3} (2005Sa40). E γ =170.1 {I2}, I γ =21 {I3} (1978Ne10).	
184AU G 236.7 1 1.00E3 10E1	0.0476	#Record 6/11 Gamma "236.7(1) E1 1.00E3(10)" Line:337[6] E=236.7($\pm .1$)keV Init.Level:L18:490.91(7) 1+ Final.Level:L8:254.26(7) 2- [E18-E8=236.65; E18-E8-E γ =-0.05 \in 0.5 σ] Relative photon intensity:RI= 1.00E3(10)	
184AUxcG a(K)exp=0.07 {I3} (1970Fizz).			
184AU cG E g=236.2 {I2}, I g=1000 (1978Ne10)			

Multipolarity of transaction:M=[M1,E2]

Total conversion coeff.:CC=0.0476

\$KC=0.0391 6 //Theoretical K- conversion coefficient

\$LC=0.00652 10 //Theoretical L-shell conversion coefficient

\$MC=0.001509 22 //Conversion coefficient for M shell; calculated

\$NC+=0.000442 7 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.000372 6 //cc for N shell

\$OC=6.61E-5 10 //cc for O shell

\$PC=3.62E-6 5 //cc for P shell

#M: $\alpha(K)\exp=0.04 \{I1\}$, $\alpha(L)\exp=0.05 \{I2\}$ (2005Sa40);
 $\alpha(K)\exp=0.07 \{I3\}$ (1970FiZZ).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

E γ =236.2 {I2}, I γ =1000 (1978Ne10)

184AU	G	248.0	2	9	3[M1,E2]	0.37	19
184AUS	G	KC=0.28	18\$LC=0.070	7\$MC=0.0169	8\$NC+=0.0050	3	
184AUS	G	NC=0.00420	22\$OC=0.00073	8\$PC=3.3E-5	23		

#Record 7/11 Gamma "248.0(2) [M1,E2] 9(3)"

Line:343[3]

E=248.0($\pm .2$)keV

Init.Level:L18:490.91(7) 1+

Final.Level:L7:242.87(10) (LE3)+ [E18-E7=248.04; E18-E7-E γ =0.04 \in 0.2 σ]

Relative photon intensity:RI=9(3)

Multipolarity of transaction:M=[M1,E2]

Total conversion coeff.:CC=0.37($\pm .19$)

\$KC=0.28 18 //Theoretical K- conversion coefficient

\$LC=0.070 7 //Theoretical L-shell conversion coefficient

\$MC=0.0169 8 //Conversion coefficient for M shell; calculated

\$NC+=0.0050 3 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells

\$NC=0.00420 22 //cc for N shell

\$OC=0.00073 8 //cc for O shell

\$PC=3.3E-5 23 //cc for P shell

#Record 8/11 Gamma "362.0(2) (M1) 25(10)"

Line:346[4]

E=362.0($\pm .2$)keV

Init.Level:L18:490.91(7) 1+

Final.Level:L4:129.13(8) (1,2)+ [E18-E4=361.78; E18-E4-E γ =-0.22 \in 1 σ]

Relative photon intensity:RI=25(10)

Multipolarity of transaction:M=(M1)

Total conversion coeff.:CC=0.200

\$KC=0.1645 24 //Theoretical K- conversion coefficient

184AU	G	362.0	2	25	10 (M1)	0.200	
184AUS	G	KC=0.1645	24\$LC=0.0270	4\$MC=0.00626	9\$NC+=0.00186	3	
184AUS	G	NC=0.001559	22\$OC=0.000287	4\$PC=1.95E-5	3		
184AU	cG M	a(K)\exp=0.16 {I8} (2005Sa40).					

$\$LC=0.0270\ 4$ //Theoretical L-shell conversion coefficient
 $\$MC=0.00626\ 9$ //Conversion coefficient f shell; calculated
 $\$NC+=0.00186\ 3$ //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
 $\$NC=0.001559\ 22$ //cc for N shell
 $\$OC=0.000287\ 4$ //cc for O shell
 $\$PC=1.95E-5\ 3$ //cc for P shell
 $\#M: \alpha(K)\exp=0.16 \{I8\}$ (2005Sa40).

- Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

184AU G 404.7 2 22 3

#Record 9/11 Gamma "404.7(2) 22(3)" Line:350
 $E=404.7(\pm .2)\text{keV}$

Init.Level:L18:490.91(7) 1+
 Final.Level:L3:86.50(8) (2,3)+ [E18-E3=404.41;
 $E_{18-E3-Ey}=-0.29\in 1\sigma$]

Relative photon intensity:RI=22(3)

#Record 10/11 Gamma "419.6(4) 5(2)" Line:351
 $E=419.6(\pm .4)\text{keV}$

Init.Level:L18:490.91(7) 1+
 Final.Level:L2:71.87(9) 2+,3+ [E18-E2=419.04;
 $E_{18-E2-Ey}=-0.56\in 1.5\sigma$]

Relative photon intensity:RI=5(2)

#Record 11/11 Gamma "422.7(2) 42(6)" Line:352[3]

$E=422.7(\pm .2)\text{keV}$
 Init.Level:L18:490.91(7) 1+
 Final.Level:L1:68.46(4) 2+ [E18-E1=422.45; E18-E1-Ey=-0.25\in 1\sigma]

Relative photon intensity:RI=42(6)

$E_{\gamma}=421.8 \{I2\}, I_{\gamma}=59 \{I7\}$ (1978Ne10); may be
 $419.6\gamma+422.7\gamma$ doublet.

184AU G 422.7 2 42 6

184AU cG E|g=421.8 {I2}, I|g=59 {I7} (1978Ne10); may be
 184AUxG 419.6|g+422.7|g doublet.

#Record 11/11 Gamma "422.7(2) 42(6)" Line:352[3]

$E=422.7(\pm .2)\text{keV}$
 Init.Level:L18:490.91(7) 1+
 Final.Level:L1:68.46(4) 2+ [E18-E1=422.45; E18-E1-Ey=-0.25\in 1\sigma]

Relative photon intensity:RI=42(6)

$E_{\gamma}=421.8 \{I2\}, I_{\gamma}=59 \{I7\}$ (1978Ne10); may be
 $419.6\gamma+422.7\gamma$ doublet.

184AU L 600.60 22

? #Record 20/20 Level "L19:600.60(22)" Line:355 Child:2
 $Energy=600.60(\pm .22)\text{keV}$ Q=? (questionable)

#Record 1/2 EC Line:356[2]
 Intensity of β^+ -decay branch: IB=0.03($\pm .03$)
 Intensity of electron capture branch:IE=0.13($\pm .13$)

The log ft for ($\varepsilon + \beta^+$) transition
 $:LOGFT=6.9(\pm .5)$

Total ($\varepsilon + \beta^+$) decay intensity:TI=0.16($\pm .16$)
 $\$EAV=1060\ 11$ //Average energy of the β^+ spectrum

$\$CK=0.681\ 4$ //Calculated fraction of decay by electron capture from the K shell
 $\$CL=0.1189\ 7$ //Calculated fraction of decay by electron capture from the L shell

184AU E 0.03 3 0.13 13 6.9 5
 184AUS E EAV=1060 11\$CK=0.681 4\$CL=0.1189 7\$CM+=0.03807 21

0.16 16 ?

184AU G 372.2 2 9 2	\$CM+=0.03807 21 ? #Record 2/2 Gamma "372.2(2) 9(2)" Line:358 E=372.2($\pm .2$)keV Init.Level:L19:600.60(22) Final.Level:L6:228.40(7) 3- [E19-E6=372. E6-E γ =0 \in 0.1 σ] Relative photon intensity:RI=9(2)	: <input type="checkbox"/> Show/Hide <input type="checkbox"/> L-Fmt <input type="checkbox"/> G-Fmt <input checked="" type="checkbox"/> Interpret. <input checked="" type="checkbox"/> #Record <input type="checkbox"/> Hierarchy <input checked="" type="checkbox"/> G-plot <input type="checkbox"/> G-plot:ok <input type="checkbox"/> L-plot/V <input type="checkbox"/> L-plot/H <input type="checkbox"/> L_n in/out
<input type="checkbox"/> End	#Record 1/1 End Line:359	

Total: Nuclides:1 Datasets:1 Records:110 Cards:359

*Design and Programming: Viktor Zerkin (v.zerkin@gmail.com)
Last updated: 02/05/2026 17:32:32*