Interpreted ENSDF: ensdf+

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

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

- 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 ^{184}Hg 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 ^{148}Sm(^{40}Ar,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 ^{148}Sm by 185 Me^{40}Ar 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.

```
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

```
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 Eγ, Iγ, γγ coin, γγ(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
```

#Record 8/8 GComm Line:25[7]
#The decay: scheme is adopted from 2005Sa40. It differs greatly from that

```
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.
```

proposed by 1978Ne10. Although Eγ and Iγ data from 2005Sa40 and 1978Ne10 are in satisfactory agreement, there exist a number of tran with Eγ<90 keV which 1978Ne10 could not detect. Also, the lowest e state reported in 1978Ne10 is actually a 68-keV 2+ isomer, not a 3+ g the presence of a state just 3.4 keV above the isomer was not recogr 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

- 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)|?6%).
```

#Record 1/1 GComm Line:32[4]
#TI,LOGFT: I(γ+ce) is from intensity imbalance at each level. I(γ+ce)v <10% may not be reliable due to existence of unplaced transitions, se which are highly converted (I(γ+ce)(30.3γ)≈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 Eγ.

```
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 γγ(t) (1978Ne10), except where noted.

- 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
184AU cN NR         from |S(I(|g+ce) to g.s.)=100, assuming no |e+|b{++} feeding
184AU2cN to the g.s. (|DJ=5) or to the 68 or 72 levels (|DJ=2 or 3, |D|p=no).
```

#Record 1/1 Norm Line:44[3]
#NR: from Σ(I(γ+ce) to g.s.)=100, assuming no ε+$β^+$ feedingto the g.s. (ΔJ=5) or to the 68 or 72 levels (ΔJ=2 or 3, Δπ=no).

- PNorm PN Record(s): 1

```
184AU PN                                                              3
```

#Record 1/1 PNorm Line:47

- UnplacedRadiation G Record(s): 12

```
184AU  G 29.4      1  1.5     3M1                    47.2   9
184AUS G LC=36.3 7$MC=8.43 15$NC+=2.51 5
184AUS G NC=2.10 4$OC=0.386 7$PC=0.0260 5
184AU cG M          |a(L1)exp=38 {I18}, L1:L2=1.0:0.4, |a(M1)exp=8.7 {I2}
184AUxcG (2005Sa40).
```

#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(±.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

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

$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: α(L1)exp=38 {I18}, L1:L2=1.0:0.4, α(M1)exp=8.7 {I2} (2005Sa40

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

#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: α(L1)exp=35 {I10}, α(L3)exp=21 {I8} (2005Sa40).

```
184AU  G  43.3      3 4.3     6
184AU cG           Only weak, mixed electron lines observed (2005Sa40).
```

#Record 3/12 UnplacedRadiation "43.3" Line:57[2]
E=43.3(±.3)keV
Relative photon intensity:RI=4.3(6)

Only weak, mixed electron lines observed (2005Sa40).

```
184AU  G 45.8      1  2.0     3M1(+E2)   0.10    AP    14.54  AP
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).
```

#Record 4/12 UnplacedRadiation "45.8" Line:59[4]
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

#M: α(L1)exp=13 {I3}, L1:L3≈1.00:0.12 (2005Sa40).

```
184AU  G 110.8     2  5       1(M1)                   5.41
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).
```

#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

#M: α(K)exp=7 {I3} (2005Sa40).

```
184AU  G 112.6     2  4       1(M1)                    5.17
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).
```

#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; calcula
$NC+=0.0492 8 //Summed conversion coefficients of N-, O-,
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: α(K)exp=3.6 {I10} (2005Sa40).

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

```
184AU  G 176.9     3 12      5                              B
```

#Record 7/12 UnplacedRadiation "176.9" Line:71
E=176.9(±.3)keV
Relative photon intensity:RI=12(5)

```
184AU  G 177.3     2 26      4 E1,E2                  0.34   24
184AUS G KC=0.16 8$LC=0.14 13$MC=0.04 4$NC+=0.011 10
184AU cG M         |a(K)exp<0.3 (2005Sa40).
```

#Record 8/12 UnplacedRadiation "177.3" Line:72[3]
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: α(K)exp<0.3 (2005Sa40).

```
184AU  G 178.1     2 6       2 E1,E2                  0.33   24
184AUS G KC=0.15 8$LC=0.13 12$MC=0.03 4$NC+=0.011 10
184AU cG M         |a(K)exp|<0.4 (2005Sa40).
```

#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: α(K)exp≤0.4 (2005Sa40).

```
184AU  G 291.5     2  17      3M1                      0.359
184AUS G KC=0.296 5$LC=0.0488 7$MC=0.01131 16$NC+=0.00337 5
184AUS G NC=0.00282 4$OC=0.000518 8$PC=3.51E-5 5
184AU cG M         |a(K)exp=0.30 {I9}, (|a(L1)exp+|a(L2)exp)=0.05 {I2}
184AUxcG (2005Sa40).
```

#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 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

```
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).
```

#M: α(K)exp=0.30 {I9}, (α(L1)exp+α(L2)exp)=0.05 {I2} (2005Sa40).

#Record 11/12 UnplacedRadiation "331.5" Line:83[4]
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; calcul
$NC+=0.00237 4 //Summed conversion coefficients of N-, O 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: α(K)exp=0.32 {I13} (2005Sa40).

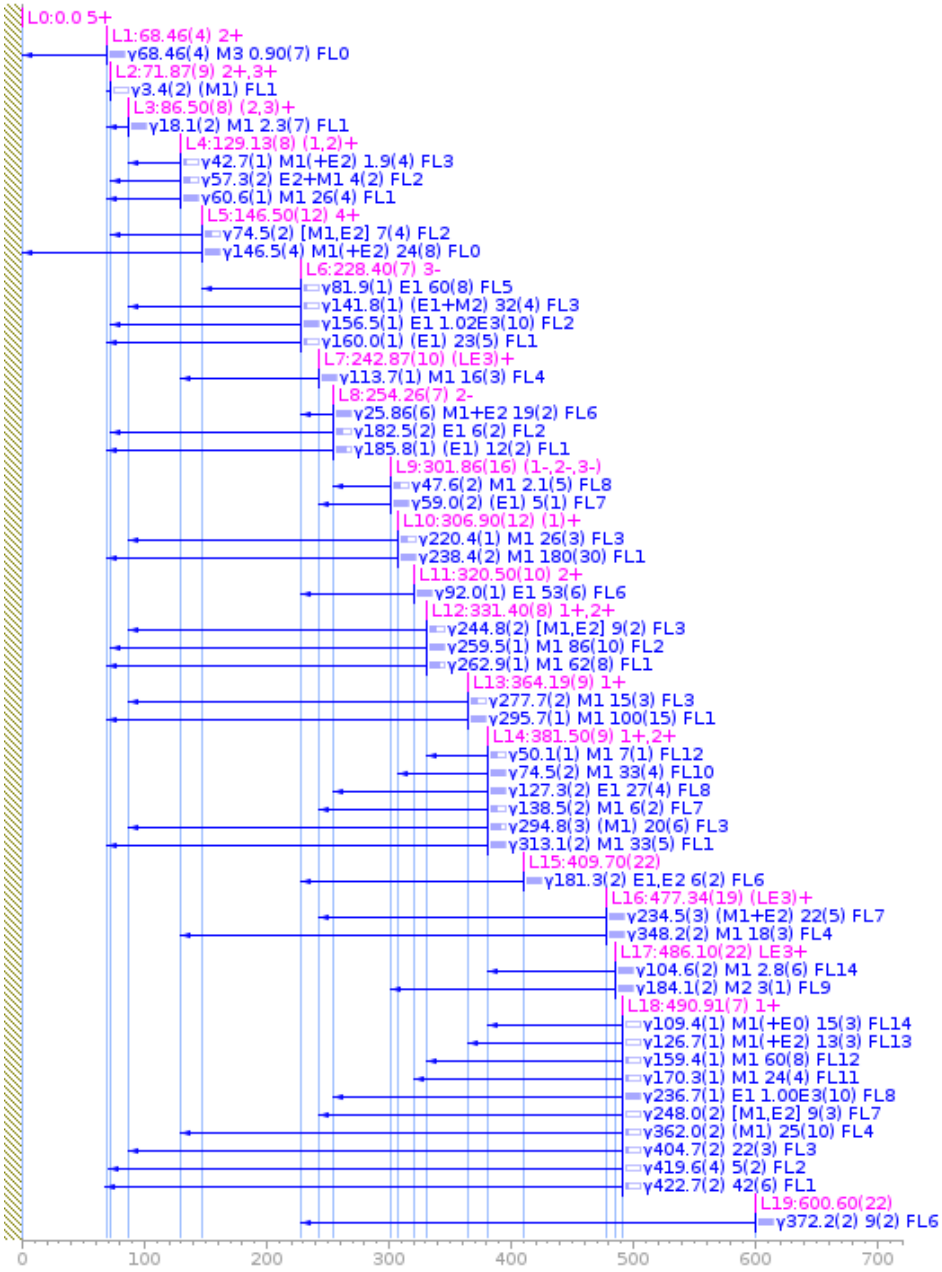
Show/Hide
- L-Fmt
- G-Fmt
- Interpret.
- #Record
- Hierarchy
- G-plot
- G-plot:ok
- L-plot/V
- L-plot/H
- L_n in/out

```
184AU  G      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

...LG-plot:Levels+Gammas...iPlot=1...Horizontal...



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

```
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
```

#Record 2/20 Level "L1:68.46(4) 2+" Line:90[2] Child:1

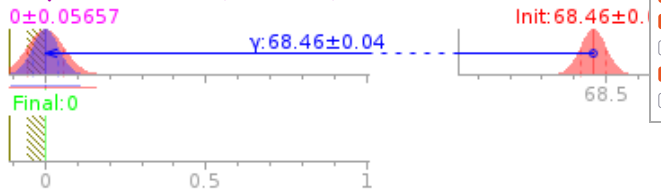
```
184AU cL T          from Adopted Levels.
```

```
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.
```

Energy=68.46(±.04)keV Spin and parity:Jπ=2+
T½=47.6(±1.4)sec Meta:MS=M

#T: from Adopted Levels.

#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.
E0-Eγ =0<1% of L1 (0.685keV)]



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

.....help1:[68.46,0.04,68.46,0.04,0.0,0.0]
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 M shell; calculated
$NC+=208 3 //Summed conversion coefficients of 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 Σ(I(γ+ce) to 68 level)=2870 {I230}.

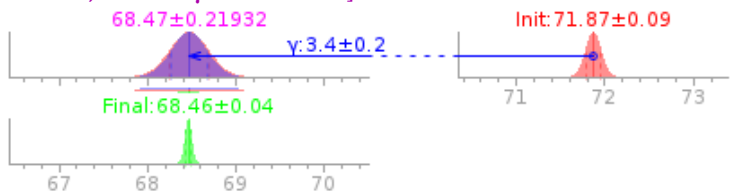
#RI: from I(γ+ce) and α.

#M: L3/(L1+L2)=1.6 {I4}, L2<<L1 (1990Ed01); (L1+L2):L3:M:N:O=232 {I35}:397 {I60}:197 {I30}:45 {I7}:18 {I6} (2005Sa40).

%Iγ=0.0303 {I10} assuming recommended decay scheme normalization.

```
184AU  L 71.87       9 2+,3+

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
184AUxcG level.
184AU cG M          N1 and O conversion lines observed (2005Sa40).
```

#Record 3/20 Level "L2:71.87(9) 2+,3+" Line:102 Child:1
Energy=71.87(±.09)keV Spin and parity:Jπ=2+,3+
#Record 1/1 Gamma "3.4(2) (M1)" Line:103[4]
E=3.4(±.2)keV
Init.Level:L2:71.87(9) 2+,3+ Final.Level:L1:68.46(4) 2+ [E2-E1=3.41; E2-E1-Eγ =0.01∈0.1σ]



.....help1:[71.87,0.09,3.4,0.2,68.46,0.04]
Multipolarity of transaction:M=(M1)
Relative total transition intensity:TI=1.55E3(16)

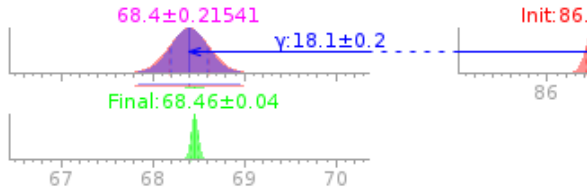
#TI: from Σ(I(γ+ce) to 72 level); no ε+$β^+$ expected to level.

#M: N1 and O conversion lines observed (2005Sa40).

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

```
184AU  L 86.50      8 (2,3)+

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).
```

#Record 4/20 Level "L3:86.50(8) (2,3)+" Line:107 Child:1
Energy=86.50(±.08)keV Spin and parity:Jπ=(2,3)+
#Record 1/1 Gamma "18.1(2) M1 2.3(7)" Line:108[4]
E=18.1(±.2)keV
Init.Level:L3:86.50(8) (2,3)+ Final.Level:L1:68.46(4) 2+ [E3
E1=18.04; E3-E1-Eγ =-0.06∈0.5σ]

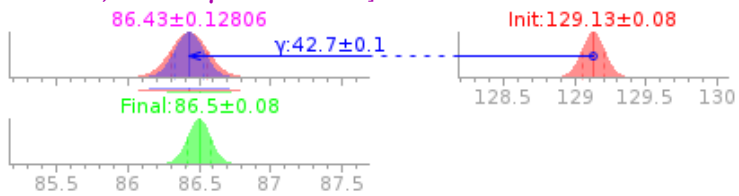


.....help1:[86.5,0.08,18.1,0.2,68.46,0.04]
Relative photon intensity:RI=2.3(7)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=198(±8)
$LC=152 6 //Theoretical L-shell conversion coefficient
$MC=35.6 13 //Conversion coefficient for M shell; calculated
$NC+=10.6 4 //Summed conversion coefficients 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: α(L1)exp=130 {I25}, L1:L2=1.00:0.11 {I1} (2005Sa40).

```
184AU  L 129.13     8 (1,2)+

184AU  E                3.8  25   11   7    5.0   3              15        10
184AUS E EAV=1271 11$CK=0.610 4$CL=0.1059 7$CM+=0.03387 23

184AU  G 42.7       1  1.9     4M1(+E2)                  1.4E2  13
184AUS G LC=1.1E2 10$MC=28 25$NC+=8 7
184AUS G NC=7 7$OC=1.1 10$PC=0.005 4
184AU cG M          |a(L1)exp|<22, |a(L3)exp<1.8 (2005Sa40) allows E1 or M1.
```

#Record 5/20 Level "L4:129.13(8) (1,2)+" Line:112 Child:4
Energy=129.13(±.08)keV Spin and parity:Jπ=(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 (ε + β^+) transition :LOGFT=5.0(±.3)
Total (ε + β^+) 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(±.1)keV
Init.Level:L4:129.13(8) (1,2)+ Final.Level:L3:86.50(8) (2,3)+ [E4-E3=42.63; E4-E3-Eγ =-0.07∈0.5σ]



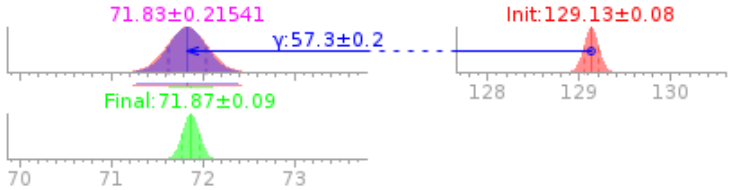
```
184AU  G 57.3      2  4       2E2+M1     1.2      AP     40.9   AP
184AUS G LC AP 30.7$MC AP 7.91$NC+ AP 2.26
184AUS G NC AP 1.94$OC AP 0.312$PC AP 0.00181
184AU cG M         |a(L2)exp|?|a(L3)exp=12 {I6}, L1:L2:L3=1.0:7.2 {I15}:6.9
184AUxcG {I15} (2005Sa40).
```

.....help1:[129.13,0.08,42.7,0.1,86.5,0.08]
Relative photon intensity:RI=1.9(4)
Multipolarity of transaction:M=M1(+E2)
Total conversion coeff.:CC=1.4E2(±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 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: α(L1)exp≤22, α(L3)exp<1.8 (2005Sa40) allows E1 or M1.

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

#Record 3/4 Gamma "57.3(2) E2+M1 4(2)" Line:119[5]
E=57.3(±.2)keV
Init.Level:L4:129.13(8) (1,2)+ Final.Level:L2:71.87(9) 2+,3+ [E4-E2=57.26; E4-E2-Eγ =-0.04∈0.2σ]

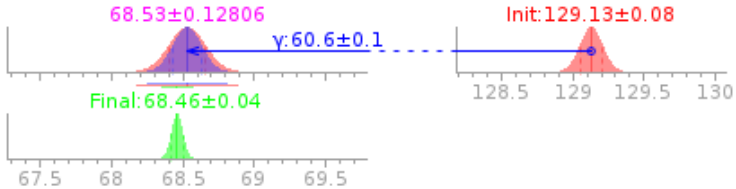


.....help1:[129.13,0.08,57.3,0.2,71.87,0.09]
Relative photon intensity:RI=4(2)
Multipolarity of transaction:M=E2+M1
Mixing Ratio:MR≈1.2
Total conversion coeff.:CC≈40.9
$LC AP 30.7 //Theoretical L-shell conversion coefficient
$MC AP 7.91 //Conversion coefficient for M shell; calculated
$NC+ AP 2.26 //Summed 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≈α(L3)exp=12 {I6}, L1:L2:L3=1.0:7.2 {I15}:6.9 {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).
```

#Record 4/4 Gamma "60.6(1) M1 26(4)" Line:124[5]
E=60.6(±.1)keV
Init.Level:L4:129.13(8) (1,2)+ Final.Level:L1:68.46(4) 2+ [E4-E1=60.67; E4-E1-Eγ =0.07∈0.5σ]



.....help1:[129.13,0.08,60.6,0.1,68.46,0.04]
Relative photon intensity:RI=26(4)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=5.60

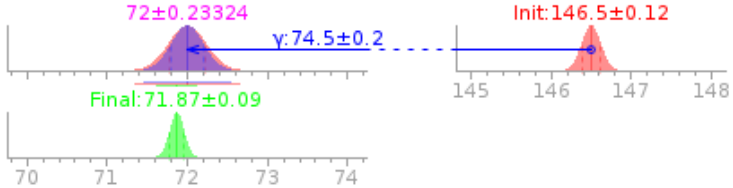
```
184AU  L 146.50    12 4+

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

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.
```

$LC=4.31 7 //Theoretical L-shell conversion coefficient
$MC=1.000 15 //Conversion coefficient for M shell; calculat
$NC+=0.298 5 //Summed conversion coefficients of N-, O-,
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 {
(2005Sa40).

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

#Record 6/20 Level "L5:146.50(12) 4+" Line:129 Child:2
Energy=146.50(±.12)keV Spin and parity:Jπ=4+
#Record 1/2 Gamma "74.5(2) [M1,E2] 7(4)" Line:130[6]
E=74.5(±.2)keV
Init.Level:L5:146.50(12) 4+ Final.Level:L2:71.87(9) 2+,3+ [E5-E2=74.63; E5-E2-Eγ =0.13∈0.5σ]

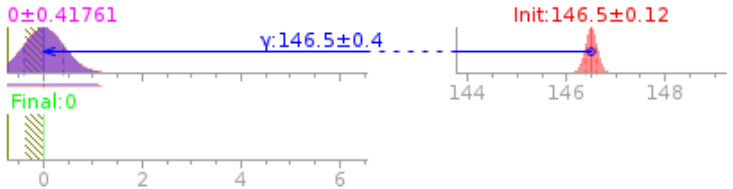


.....help1:[146.5,0.12,74.5,0.2,71.87,0.09]
Relative photon intensity:RI=7(4)
Multipolarity of transaction:M=[M1,E2]
Total conversion coeff.:CC=11(±8)
$LC=8 6 //Theoretical L-shell conversion coefficient
$MC=2.1 15 //Conversion coefficient for M shell; calculated
$NC+=0.6 5 //Summed conversion coefficients of 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 γγ coin; Iγ=40 {I4} for doublet (2005Sa40).

#M: α(L1)exp=2.4 {I4}, M1:M2:M3=1.00:0.21:0.09 (2005Sa40) for doublet.

#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-Eγ =0<1% of L1 (0.685keV)]



.....help1:[146.5,0.12,146.5,0.4,0.0,0.0]
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- 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: α(K)exp≤3.5, (α(L1)exp+α(L2)exp)=0.26 {I10}, α(L3)exp≤0.08 (2005Sa40).

Eγ=146.0 {I3}, Iγ=48 {I4}, unplaced γ in 1978Ne10.

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

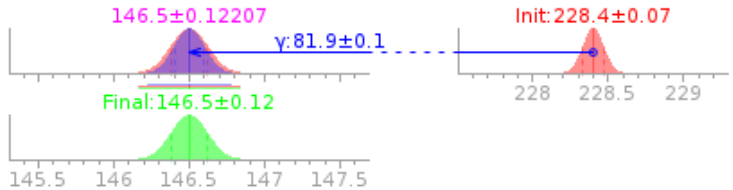
```
184AU  L 228.40     7  3-              69 NS      6
184AU cL T         from 157|g-237|g(t) (1994Ib01). Other T{-1/2}:
184AU2cL 67 ns {I8} (H. Haas (1978), private communication to authors of
184AU3cL 1994Ib01); 36 ns {I6} (1978Ne10).
```

#Record 7/20 Level "L6:228.40(7) 3-" Line:142[4] Child:4
Energy=228.40(±.07)keV Spin and parity:Jπ=3-
$T_{½}$=69(±6)·10^{-9}sec

#T: from 157γ-237γ(t) (1994Ib01). Other $T_{1/2}$: 67 ns {I8} (H. Haas (1978), private communication to authors of 1994Ib01); 36 ns {I6} (1978Ne10).

```
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).
```

#Record 1/4 Gamma "81.9(1) E1 60(8)" Line:146[4]
E=81.9(±.1)keV
Init.Level:L6:228.40(7) 3- Final.Level:L5:146.50(12) 4+ [E6-E5=81.9; E6-E5-Eγ =0∈0σ]

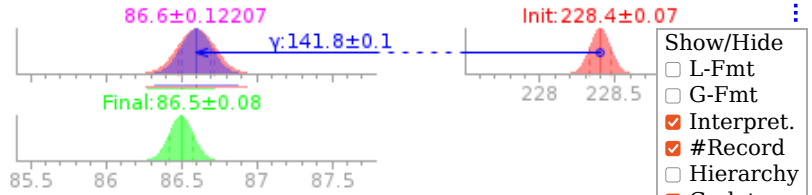


.....help1:[228.4,0.07,81.9,0.1,146.5,0.12]
Relative photon intensity:RI=60(8)
Multipolarity of transaction:M=E1
Total conversion coeff.:CC=0.670
$KC=0.529 8 //Theoretical K- conversion coefficient
$LC=0.1089 16 //Theoretical L-shell conversion coefficient
$MC=0.0254 4 //Conversion coefficient for M 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: (α(L1)exp+α(L2)exp)≤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(±.1)keV
Init.Level:L6:228.40(7) 3- Final.Level:L3:86.50(8) (2,3)+ [E6-E3=141.9; E6-E3-Eγ =0.1∈0.5σ]



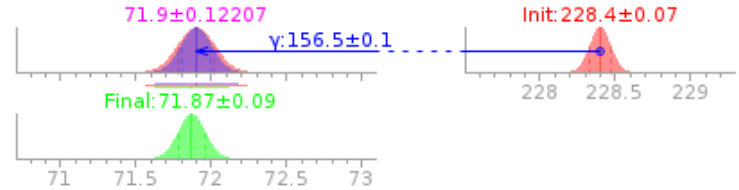

```
184AU  G 156.5     1  1.02E3 10 E1                      0.1335
184AUS G KC=0.1087 16$LC=0.0191 3$MC=0.00442 7$NC+=0.001288 19
184AUS G NC=0.001088 16$OC=0.000190 3$PC=9.53E-6 14
184AU cG M          |a(K)exp=0.10 {I2}, (|a(L1)exp+|a(L2)exp)=0.012 {I4}
184AU2cG (2005Sa40); |a(K)exp|?0.10 (1970FiZZ).
184AU cG           E|g=156.2 {I2}, I|g=910 {I90} in 1978Ne10.
```

.....help1:[228.4,0.07,141.8,0.1,86.5,0.08]
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: α(K)exp=1.8 {I5}, (α(L1)exp+α(L2)exp)=0.45 {I9}, α(L3)exp=0.09 {I4} (2005Sa40). M1+E2 (δ=0.59) also possible, but Δπ=yes from level scheme.

Eγ=141.6 {I3}, Iγ=19 {I3} (1978Ne10).

#Record 3/4 Gamma "156.5(1) E1 1.02E3(10)" Line:157[6]
E=156.5(±.1)keV
Init.Level:L6:228.40(7) 3- Final.Level:L2:71.87(9) 2+,3+ [E6-E2=156.53; E6-E2-Eγ =0.03∈0.2σ]



.....help1:[228.4,0.07,156.5,0.1,71.87,0.09]
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: α(K)exp=0.10 {I2}, (α(L1)exp+α(L2)exp)=0.012 {I4} (2005Sa40); α(K)exp≈0.10 (1970FiZZ).

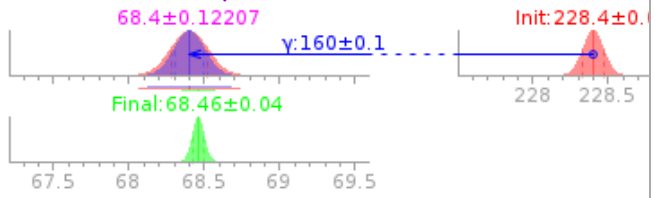
Eγ=156.2 {I2}, Iγ=910 {I90} in 1978Ne10.

```
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).
```

#Record 4/4 Gamma "160.0(1) (E1) 23(5)" Line:163[5]

E=160.0(±.1)keV

Init.Level:L6:228.40(7) 3- Final.Level:L1:68.46(4) 2+ [E6-E1=159.94; E6-E1-Eγ =-0.06∈0.5σ]



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

.....help1:[228.4,0.07,160.0,0.1,68.46,0.04]

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: α(K)exp=0.3 {I2} (2005Sa40).

Eγ=159.2 {I4}, Iγ=10 {I3} (1978Ne10).

```
184AU  L 242.87    10  (LE3)+

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).
```

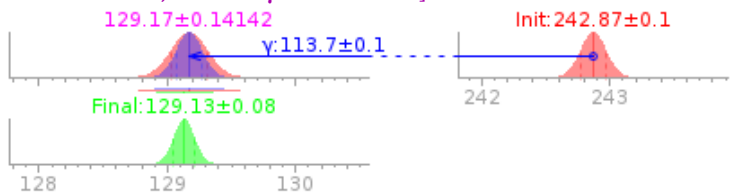
#Record 8/20 Level "L7:242.87(10) (LE3)+" Line:168 Child:1

Energy=242.87(±.10)keV Spin and parity:Jπ=(LE3)+

#Record 1/1 Gamma "113.7(1) M1 16(3)" Line:169[4]

E=113.7(±.1)keV

Init.Level:L7:242.87(10) (LE3)+ Final.Level:L4:129.13(8) (1,2)+ [E7-E4=113.74; E7-E4-Eγ =0.04∈0.2σ]



.....help1:[242.87,0.1,113.7,0.1,129.13,0.08]

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

```
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
```

#M: α(K)exp=4.6 {I6}, α(L1)exp=1.0 {I4} (2005Sa40).

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

#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) fr level on δ(26γ). %ε+%$β^+$<0.25 is expected for the possible 1U branch level, based on log {$If^{1u}t$}>8.5.

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

```
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).
```

#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-Eγ =0∈0.1σ]

.....help1:[254.26,0.07,25.86,0.06,228.4,0.07]
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 coefficient
$MC=13.4 7 //Conversion coefficient for M shell; calculated
$NC+=3.96 19 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
$NC=3.32 16 //cc for N shell
$OC=0.60 3 //cc for O shell
$PC=0.0380 6 //cc for P shell

#M: α(L1)exp=52 {I10}, α(L2)exp=6.3 {I10}, L2:L3=1.00:0.36 {I10}, (M1+M2):M3=1.00:0.04 {I1} (2005Sa40).

```
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(±.2)keV
Init.Level:L8:254.26(7) 2- Final.Level:L2:71.87(9) 2+,3+ [E8-E2=182.39; E8-E2-Eγ =-0.11∈0.5σ]

.....help1:[254.26,0.07,182.5,0.2,71.87,0.09]
Relative photon intensity:RI=6(2)
Multipolarity of transaction:M=E1
Total conversion coeff.:CC=0.0906

```
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).
```

$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; calcula
$NC+=0.000861 13 //Summed conversion coefficients of N-
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: α(K)exp<0.15 (2005Sa40).

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

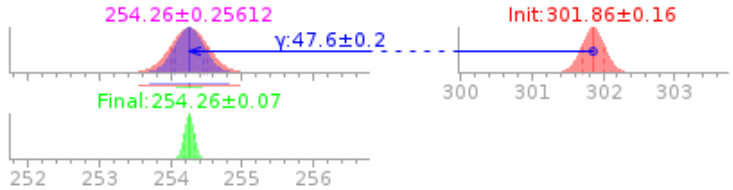
#Record 3/3 Gamma "185.8(1) (E1) 12(2)" Line:189[4]
E=185.8(±.1)keV
Init.Level:L8:254.26(7) 2- Final.Level:L1:68.46(4) 2+ [E8-E1=185.8; E8-E1-Eγ =0∈0.1σ]

.....help1:[254.26,0.07,185.8,0.1,68.46,0.04]
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
$PC=6.36E-6 9 //cc for P shell

#M: α(K)exp<0.17 (2005Sa40).

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

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 10/20 Level "L9:301.86(16) (1-,2-,3-)" Line:193 Child:2
Energy=301.86(±.16)keV Spin and parity:Jπ=(1-,2-,3-) Q=? (questionable)
#Record 1/2 Gamma "47.6(2) M1 2.1(5)" Line:194[4]
E=47.6(±.2)keV
Init.Level:L9:301.86(16) (1-,2-,3-) Final.Level:L8:254.26(7) 2- [E9-E8=47.6; E9-E8-Eγ =0∈0.1σ]



.....help1:[301.86,0.16,47.6,0.2,254.26,0.07]
Relative photon intensity:RI=2.1(5)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=11.39(±.22)

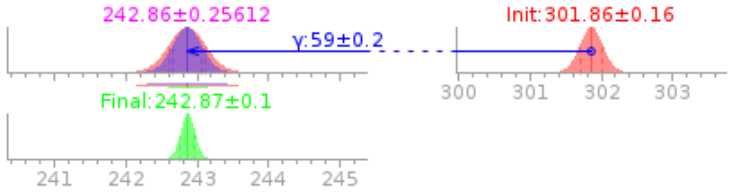
```
184AU  G 59.0      2  5       1(E1)                    0.346  6                ?
184AUS G LC=0.266 5$MC=0.0625 11$NC+=0.0178 3
184AUS G NC=0.0152 3$OC=0.00252 5$PC=9.26E-5 15
184AU cG M          L1 and L3 conversion electrons not observed (2005Sa40).
```

$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-, 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: α(L1)exp=8 {I2}, α(M1)exp=1.9 {I10} (2005Sa40).

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

#Record 2/2 Gamma "59.0(2) (E1) 5(1)" Line:198[4]
E=59.0(±.2)keV
Init.Level:L9:301.86(16) (1-,2-,3-) Final.Level:L7:242.87(10) [E9-E7=58.99; E9-E7-Eγ =-0.01∈0.1σ]



.....help1:[301.86,0.16,59.0,0.2,242.87,0.1]
Relative photon intensity:RI=5(1)
Multipolarity of transaction:M=(E1)
Total conversion coeff.:CC=0.346(±.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)+

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).
```

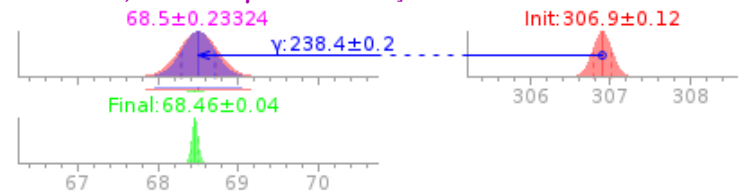
#Record 11/20 Level "L10:306.90(12) (1)+" Line:202 Child:3
Energy=306.90(±.12)keV Spin and parity:Jπ=(1)+
#Record 1/3 EC Line:203[2]
Intensity of β^+-decay branch: IB=1.5(±.4)
Intensity of electron capture branch:IE=5.4(±1.5)
The log *ft* for (ε + β^+) transition :LOGFT=5.32(±.12)
Total (ε + β^+) decay 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(±.1)keV
Init.Level:L10:306.90(12) (1)+ Final.Level:L3:86.50(8) (2,3)+ [E10-E3=220.4; E10-E3-Eγ =0∈0.1σ]

.....help1:[306.9,0.12,220.4,0.1,86.5,0.08]
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: α(K)exp=0.54 {I12}, (α(L1)exp+α(L2)exp)=0.11 {I3} (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).
```

#Record 3/3 Gamma "238.4(2) M1 180(30)" Line:210[5]
E=238.4(±.2)keV
Init.Level:L10:306.90(12) (1)+ Final.Level:L1:68.46(4) 2+ [E10-E1=238.44; E10-E1-Eγ =0.04∈0.2σ]



.....help1:[306.9,0.12,238.4,0.2,68.46,0.04]
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
$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: α(K)exp=0.46 {I11}, α(L)exp=0.08 {I2}, α(M)exp=0.02 {I1} (2005Sa40).

```
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(±.10)keV Spin and parity:Jπ=2+ $T_{1/2}<2\cdot10^{-9}$sec

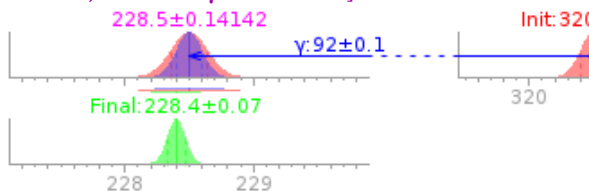
#T: from γ delayed coin (1978Ne10).

```
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
```

#Record 1/1 Gamma "92.0(1) E1 53(6)" Line:217[5]
E=92.0(±.1)keV
Init.Level:L11:320.50(10) 2+ Final.Level:L6:228.40(7) 3- [E11-

```
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).
```

E6=92.1; E11-E6-Eγ =0.1∈0.5σ]



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

.....help1:[320.5,0.1,92.0,0.1,228.4,0.07]
Relative photon intensity:RI=53(6)
Multipolarity of transaction: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

Eγ=91.5 {I5}, Iγ=47 {I8} (1978Ne10).

#M: α(L1)exp≤0.1, α(L3)exp≤0.05 (2005Sa40).

```
184AU  L 331.40     8 1+,2+

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
```

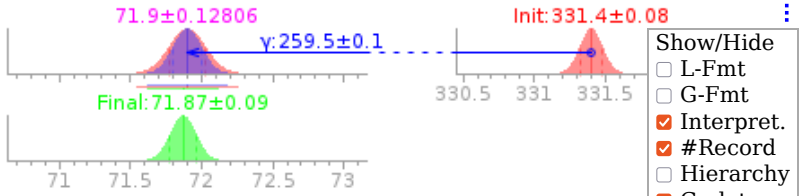
#Record 13/20 Level "L12:331.40(8) 1+,2+" Line:222 Child:3
Energy=331.40(±.08)keV Spin and parity:Jπ=1+,2+
#Record 1/3 Gamma "244.8(2) [M1,E2] 9(2)" Line:223[3]
E=244.8(±.2)keV
Init.Level:L12:331.40(8) 1+,2+ Final.Level:L3:86.50(8) (2,3)+ [E12-E3=244.9; E12-E3-Eγ =0.1∈0.5σ]

.....help1:[331.4,0.08,244.8,0.2,86.5,0.08]
Relative photon intensity:RI=9(2)
Multipolarity of transaction:M=[M1,E2]
Total conversion coeff.:CC=0.39(±.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 M 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

```
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}
```

#Record 2/3 Gamma "259.5(1) M1 86(10)" Line:226[6]
E=259.5(±.1)keV
Init.Level:L12:331.40(8) 1+,2+ Final.Level:L2:71.87(9) 2+,3+ [E12-E2=259.53; E12-E2-Eγ =0.03∈0.2σ]

```
184AU2cG (2005Sa40); |a(K)exp|?0.25 (1970FiZZ).
184AU cG           E|g=259.0 {I1}, I|g=84 {I10} (1978Ne10).
```



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

.....help1:[331.4,0.08,259.5,0.1,71.87,0.09]
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: α(K)exp=0.39 {I7}, (α(L1)exp+α(L2)exp)=0.06 {I7} (2005Sa40); α(K)exp≈0.25 (1970FiZZ).

Eγ=259.0 {I1}, Iγ=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).
```

#Record 3/3 Gamma "262.9(1) M1 62(8)" Line:232[6]
E=262.9(±.1)keV
Init.Level:L12:331.40(8) 1+,2+ Final.Level:L1:68.46(4) 2+ [E12-E1=262.94; E12-E1-Eγ =0.04∈0.5σ]

.....help1:[331.4,0.08,262.9,0.1,68.46,0.04]
Relative photon intensity:RI=62(8)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=0.476
$KC=0.392 6 //Theoretical K- conversion coefficient
$LC=0.0649 10 //Theoretical L-shell conversion coefficient
$MC=0.01503 22 //Conversion coefficient for M 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: α(K)exp=0.38 {I7}, (α(L1)exp+α(L2)exp)=0.07 {I2} (2005Sa40); α(K)exp≈0.25 (1970FiZZ).

Eγ=262.3 {I1}, Iγ=67 {I8} (1978Ne10).

```
184AU  L 364.19     9 1+
```

#Record 14/20 Level "L13:364.19(9) 1+" Line:238 Child:3

```
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
```

Energy=364.19(±.09)keV Spin and parity:Jπ=1+

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

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

Intensity of electron capture branch:IE=2.9(±.8)

The log *ft* for (ε + β^+) transition :LOGFT=5.58(±.12)

Total (ε + β^+) 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 capt from the K shell

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

$CM+=0.03601 22

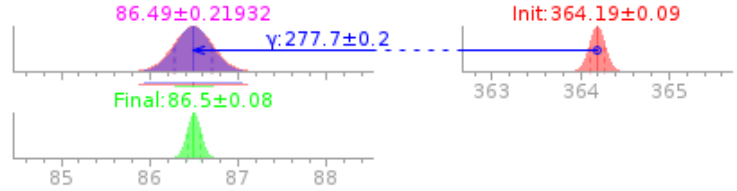
Show/Hide
- [ ] L-Fmt
- [ ] G-Fmt
- [x] Interpret.
- [x] #Record
- [ ] Hierarchy
- [x] G-plot
- [x] G-plot:ok
- [ ] L-plot/V
- [x] L-plot/H
- [ ] L_n in/out

```
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         |a(K)exp=0.37 {I9}, (|a(L1)exp+|a(L2)exp)=0.04 {I2}
184AUxcG (2005Sa40).
```

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

E=277.7(±.2)keV

Init.Level:L13:364.19(9) 1+ Final.Level:L3:86.50(8) (2,3)+ [E13-E3=277.69; E13-E3-Eγ =-0.01∈0.1σ]



.....help1:[364.19,0.09,277.7,0.2,86.5,0.08]

Relative photon intensity:RI=15(3)

Multipolarity of transaction: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 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

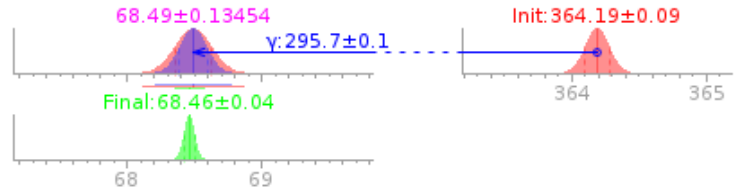
#M: α(K)exp=0.37 {I9}, (α(L1)exp+α(L2)exp)=0.04 {I2} (2005Sa40).

```
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
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}
184AU2cG (1970FiZZ) for line which may be a 294.8|g+295.7|g doublet.
```

#Record 3/3 Gamma "295.7(1) M1 100(15)" Line:246[7]

E=295.7(±.1)keV

Init.Level:L13:364.19(9) 1+ Final.Level:L1:68.46(4) 2+ [E13-E1=295.73; E13-E1-Eγ =0.03∈0.2σ]



.....help1:[364.19,0.09,295.7,0.1,68.46,0.04]

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; calcu
$NC+=0.00324 5 //Summed conversion coefficients of N-, C
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

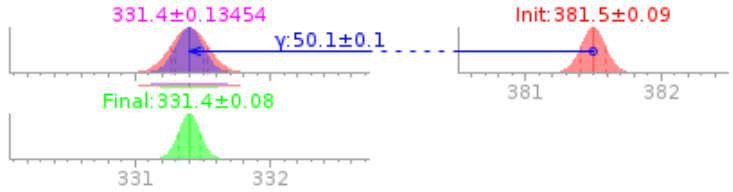
#M: α(K)exp=0.28 {I8}, (α(L1)exp+α(L2)exp)=0.08 {I3} (2005Sa40).

Eγ=295.1 {I1}, Iγ=160 {I20} (1978Ne10), α(K)exp=0.04 {I2}(1970FiZZ
which may be a 294.8γ+295.7γ doublet.

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

```
184AU  L 381.50     9 1+,2+

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).
```

#Record 15/20 Level "L14:381.50(9) 1+,2+" Line:253 Child:6
Energy=381.50(±.09)keV Spin and parity:Jπ=1+,2+
#Record 1/6 Gamma "50.1(1) M1 7(1)" Line:254[5]
E=50.1(±.1)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L12:331.40(8) 1+,2+
[E14-E12=50.1; E14-E12-Eγ =0∈0σ]

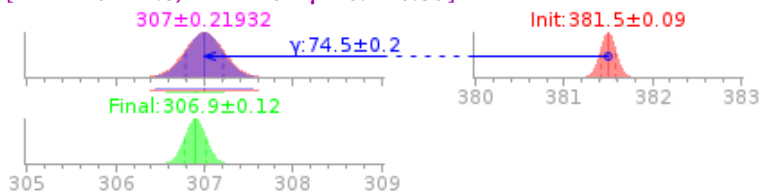


.....help1:[381.5,0.09,50.1,0.1,331.4,0.08]
Relative photon intensity:RI=7(1)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=9.80
$LC=7.53 12 //Theoretical L-shell conversion coefficient
$MC=1.75 3 //Conversion coefficient for M shell; calculated
$NC+=0.521 8 //Summed conversion coefficients of N-, O-, P-, Q-
and R-shells
$NC=0.435 7 //cc for N shell
$OC=0.0800 13 //cc for O shell
$PC=0.00540 9 //cc for P shell

#M: α(L1)exp=8.5 {I15}, α(L1)exp:α(L2)exp=1.00:0.13 {I2} (2005Sa40).

```
184AU  G 74.5      2  33      4M1                        3.07                @
184AUS G LC=2.36 4$MC=0.547 9$NC+=0.163 3
184AUS G NC=0.1362 22$OC=0.0250 4$PC=0.00169 3
184AU cG RI         from |g|g coin; I|g=40 {I4} for doublet (2005Sa40).
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.
```

#Record 2/6 Gamma "74.5(2) M1 33(4)" Line:259[6]
E=74.5(±.2)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L10:306.90(12) (1)+
[E14-E10=74.6; E14-E10-Eγ =0.1∈0.5σ]



.....help1:[381.5,0.09,74.5,0.2,306.9,0.12]
Relative photon intensity:RI=33(4)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=3.07

```
184AU  G 127.3     2  27       4E1                          0.225
184AUS G KC=0.182 3$LC=0.0330 5$MC=0.00768 12$NC+=0.00223 4
184AUS G NC=0.00188 3$OC=0.000327 5$PC=1.552E-5 23
184AU cG M          |a(K)exp|<0.4, |a(L3)exp|<0.1 (2005Sa40).
```

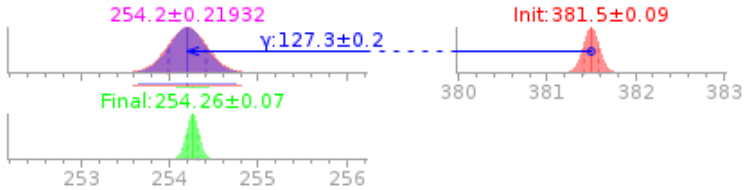
$LC=2.36 4 //Theoretical L-shell conversion coefficient
$MC=0.547 9 //Conversion coefficient for M shell; calculate
$NC+=0.163 3 //Summed conversion coefficients of N-, O-,
and R-shells
$NC=0.1362 22 //cc for N shell
$OC=0.0250 4 //cc for O shell
$PC=0.00169 3 //cc for P shell

#RI: from γγ coin; Iγ=40 {I4} for doublet (2005Sa40).

#M: α(L1)exp=2.4 {I4}, M1:M2:M3=1.00:0.21:0.09 (2005Sa40) for do
dominated by this transition.

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

#Record 3/6 Gamma "127.3(2) E1 27(4)" Line:265[4]
E=127.3(±.2)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L8:254.26(7) 2- [E14-E8=127.24; E14-E8-Eγ =-0.06∈0.5σ]

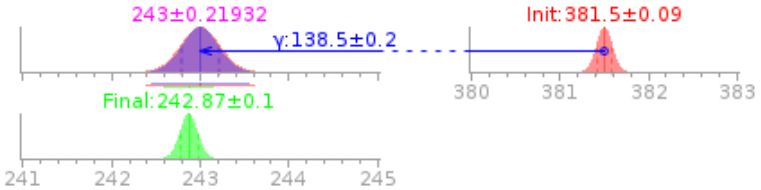


.....help1:[381.5,0.09,127.3,0.2,254.26,0.07]
Relative photon intensity:RI=27(4)
Multipolarity of transaction:M=E1
Total conversion coeff.:CC=0.225
$KC=0.182 3 //Theoretical K- conversion coefficient
$LC=0.0330 5 //Theoretical L-shell conversion coefficient
$MC=0.00768 12 //Conversion coefficient for 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: α(K)exp≤0.4, α(L3)exp≤0.1 (2005Sa40).

```
184AU  G 138.5     2  6        2M1                          2.86
184AUS G KC=2.35 4$LC=0.393 6$MC=0.0912 14$NC+=0.0272 4
184AUS G NC=0.0227 4$OC=0.00418 7$PC=0.000282 5
184AU cG M          |a(K)exp=2.9 {I8} (2005Sa40).
```

#Record 4/6 Gamma "138.5(2) M1 6(2)" Line:269[4]
E=138.5(±.2)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L7:242.87(10) (LE3)+ [E14-E7=138.63; E14-E7-Eγ =0.13∈0.5σ]



.....help1:[381.5,0.09,138.5,0.2,242.87,0.1]
Relative photon intensity:RI=6(2)
Multipolarity of transaction:M=M1
Total conversion coeff.:CC=2.86
$KC=2.35 4 //Theoretical K- conversion coefficient
$LC=0.393 6 //Theoretical L-shell conversion coefficient

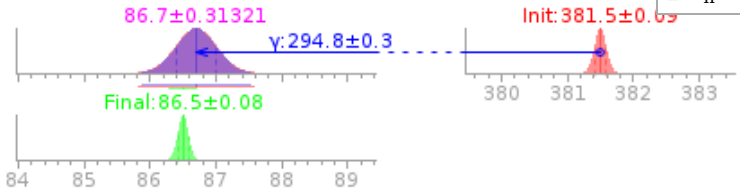
```
184AU  G 294.8     3  20      6(M1)                    0.348
184AUS G KC=0.287 4$LC=0.0473 7$MC=0.01096 16$NC+=0.00327 5
184AUS G NC=0.00273 4$OC=0.000502 8$PC=3.40E-5 5
184AU cG M         |a(K)exp=0.30 {I15} (2005Sa40).
184AU cG           See comment on 295.7|g.
```

$MC=0.0912 14 //Conversion coefficient for M shell; calculated
$NC+=0.0272 4 //Summed conversion coefficients of N-, O-, and R-shells
$NC=0.0227 4 //cc for N shell
$OC=0.00418 7 //cc for O shell
$PC=0.000282 5 //cc for P shell

#M: α(K)exp=2.9 {I8} (2005Sa40).

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

#Record 5/6 Gamma "294.8(3) (M1) 20(6)" Line:273[5]
E=294.8(±.3)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L3:86.50(8) (2,3
E3=295.0; E14-E3-Eγ =0.2∈1σ]



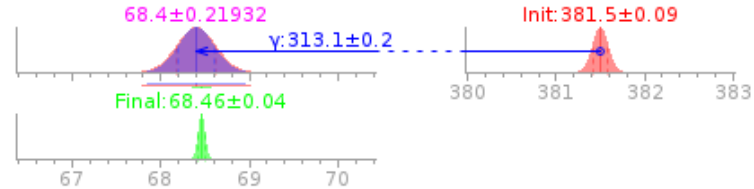
.....help1:[381.5,0.09,294.8,0.3,86.5,0.08]
Relative photon intensity:RI=20(6)
Multipolarity of transaction:M=(M1)
Total conversion coeff.:CC=0.348
$KC=0.287 4 //Theoretical K- conversion coefficient
$LC=0.0473 7 //Theoretical L-shell conversion coefficient
$MC=0.01096 16 //Conversion coefficient for 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: α(K)exp=0.30 {I15} (2005Sa40).

See comment on 295.7γ.

```
184AU  G 313.1     2  33      5M1                      0.296
184AUS G KC=0.243 4$LC=0.0401 6$MC=0.00929 14$NC+=0.00277 4
184AUS G NC=0.00231 4$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).
```

#Record 6/6 Gamma "313.1(2) M1 33(5)" Line:278[5]
E=313.1(±.2)keV
Init.Level:L14:381.50(9) 1+,2+ Final.Level:L1:68.46(4) 2+ [E14-E1=313.04; E14-E1-Eγ =-0.06∈0.5σ]



.....help1:[381.5,0.09,313.1,0.2,68.46,0.04]
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 for M shell; calculated
$NC+=0.00277 4 //Summed conversion coefficients of N-, O-, P-, Q-

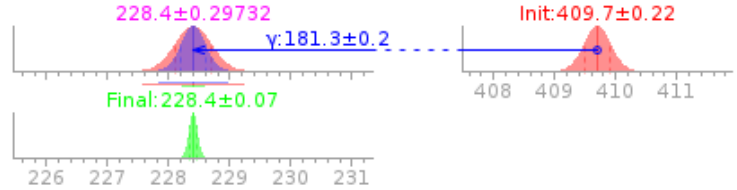
```
                                                                                
```

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).

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

```
184AU  L 409.70    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$CM+=0.03642 22
184AU  G  181.3     2 6       2 E1,E2                 0.31   22
184AUS G KC=0.15 8$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 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
#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-Eγ =0∈0.1σ]



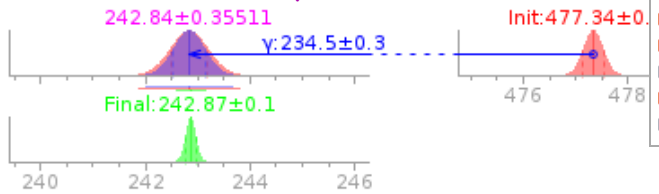
.....help1:[409.7,0.22,181.3,0.2,228.4,0.07]
Relative photon intensity:RI=6(2)
Multipolarity of transaction:M=E1,E2
Total conversion coeff.:CC=0.31(±.22)
$KC=0.15 8 //Theoretical K- conversion coefficient
$LC=0.12 12 //Theoretical L-shell conversion coefficient
$MC=0.03 3 //Conversion coefficient for M shell; calculated
$NC+=0.010 9 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
#M: α(K)exp<0.3 (2005Sa40) implies mult=E1,E2.

```
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:289 Child:3
Energy=477.34(±.19)keV Spin and parity:Jπ=(LE3)+
#Record 1/3 EC Line:290[2]
Intensity of β^+-decay branch: IB=0.33(±.07)
Intensity of electron capture branch:IE=1.5(±.3)
The log *ft* for (ε + β^+) transition :LOGFT=5.85(±.10)
Total (ε + β^+) decay intensity:TI=1.8(±.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

```
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).
```

$CL=0.1156 7 //Calculated fraction of decay by electron capture from the L shell
$CM+=0.03701 21
#Record 2/3 Gamma "234.5(3) (M1+E2) 22(5)" Line:292[4]
E=234.5(±.3)keV
Init.Level:L16:477.34(19) (LE3)+ Final.Level:L7:242.87(10)
[E16-E7=234.47; E16-E7-Eγ =-0.03∈0.1σ]



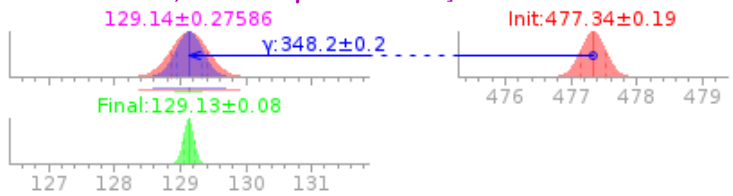
Show/Hide
- [ ] L-Fmt
- [ ] G-Fmt
- [x] Interpret.
- [x] #Record
- [ ] Hierarchy
- [x] G-plot
- [x] G-plot:ok
- [ ] L-plot/V
- [x] L-plot/H
- [ ] L_n in/out

.....help1:[477.34,0.19,234.5,0.3,242.87,0.1]
Relative photon intensity:RI=22(5)
Multipolarity of transaction:M=(M1+E2)
Total conversion coeff.:CC=0.44(±.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: α(K)exp=0.3 {I2}, α(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$NC+=0.00207 3
184AUS G NC=0.001732 25$OC=0.000319 5$PC=2.16E-5 3
184AU cG M         |a(K)exp=0.17 {I5}, K/L|?5.6 (2005Sa40).
```

#Record 3/3 Gamma "348.2(2) M1 18(3)" Line:296[4]
E=348.2(±.2)keV
Init.Level:L16:477.34(19) (LE3)+ Final.Level:L4:129.13(8) (1,2)+
[E16-E4=348.21; E16-E4-Eγ =0.01∈0.1σ]



.....help1:[477.34,0.19,348.2,0.2,129.13,0.08]
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 conversion coefficient
$MC=0.00695 10 //Conversion coefficient for M 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).

```
184AU  L 486.10    22 LE3+

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).

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).
```

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

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

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

#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 capt
from the K shell
$CL=0.1158 7 //Calculated fraction of decay by electron cap
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-Eγ =0∈0σ]

.....help1:[486.1,0.22,104.6,0.2,381.5,0.09]
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 coefficient
$MC=0.204 3 //Conversion coefficient for M shell; 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: α(K)exp=6.8 {I20}, α(L1)exp=1.3 {I6} (2005Sa40).

#Record 3/3 Gamma "184.1(2) M2 3(1)" Line:307[4]

E=184.1(±.2)keV
Init.Level:L17:486.10(22) LE3+ Final.Level:L9:301.86(16) (1-,2-,3-)
[E17-E9=184.24; E17-E9-Eγ =0.14∈0.5σ]

.....help1:[486.1,0.22,184.1,0.2,301.86,0.16]
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; calculate
$NC+=0.1019 15 //Summed conversion coefficients of N-, C
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: α(K)exp=6 {I2}, (α(L1)exp+α(L2)exp)=1.7 {I8} (2005Sa40).

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

```
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(±.07)keV Spin and parity:Jπ=1+ $T_{1/2}$<2·10 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 (ε + β^+) transition :LOGFT=4.33(±.06)
Total (ε + β^+) 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 decay by electron capture from the L shell
$CM+=0.03713 21

```
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.
```

#Record 2/11 Gamma "109.4(1) M1(+E0) 15(3)" Line:315[5]
E=109.4(±.1)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L14:381.50(9) 1+,2+ [E18-E14=109.41; E18-E14-Eγ =0.01∈0.1σ]

.....help1:[490.91,0.07,109.4,0.1,381.5,0.09]
Relative photon intensity:RI=15(3)
Multipolarity of transaction:M=M1(+E0)
Total conversion coeff.:CC≈18

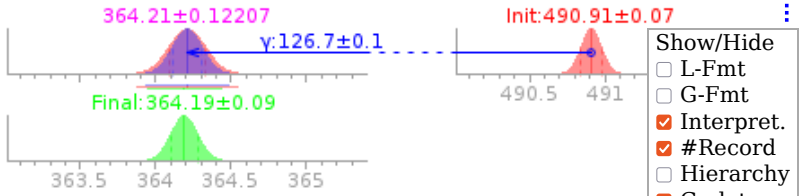
#M: α(K)exp=14 {I4}, α(L1)exp=2.3 {I5} (2005Sa40). α(K)=4.78 {I15}; α(L)=0.802 {I24}; α(M)=0.186 {I6}; α(N+..)=0.0593 {I18} if pure M1.

#CC: approximate value; from α(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).
```

#Record 3/11 Gamma "126.7(1) M1(+E2) 13(3)" Line:320[6]
E=126.7(±.1)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L13:364.19(9) 1+ [E18-E13=126.72; E18-E13-Eγ =0.02∈0.1σ]

```
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).
184AU cG           E|g=159.1 {I4}, I|g=60 {I10} (1978Ne10).
```

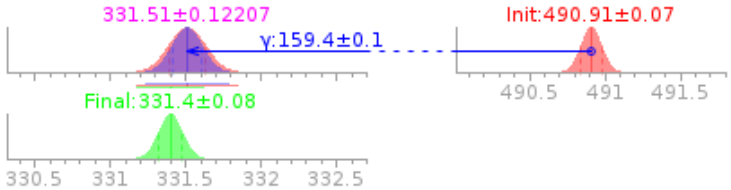


.....help1:[490.91,0.07,126.7,0.1,364.19,0.09]
Relative photon intensity:RI=13(3)
Multipolarity of transaction:M=M1(+E2)
Total conversion coeff.:CC=2.8(±.9)
$KC=1.8 13 //Theoretical K- conversion coefficient
$LC=0.8 4 //Theoretical L-shell conversion coefficient
$MC=0.21 9 //Conversion coefficient for M shell; calculated
$NC+=0.060 25 //Summed conversion coefficients of N-, O-, P-, Q- and R-shells
$NC=0.051 22 //cc for N shell
$OC=0.009 4 //cc for O shell
$PC=0.00021 16 //cc for P shell

#M: α(K)exp=2.0 {I6}, (α(L1)exp+α(L2)exp)=0.62 {I15}, α(L3)exp≤0.15 (2005Sa40).

Eγ=126.5 {I3}, Iγ=14 {I4} (1978Ne10).

#Record 4/11 Gamma "159.4(1) M1 60(8)" Line:326[6]
E=159.4(±.1)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L12:331.40(8) 1+,2+ [E18-E12=159.51; E18-E12-Eγ =0.11∈1σ]



.....help1:[490.91,0.07,159.4,0.1,331.4,0.08]
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 M 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: α(K)exp=1.4 {I4}, (α(L1)exp+α(L2)exp)=0.27 {I6} (2005Sa40).

Eγ=159.1 {I4}, Iγ=60 {I10} (1978Ne10).

```
184AU  G 170.3     1  24      4M1                        1.595
184AUS G KC=1.310 19$LC=0.219 3$MC=0.0507 8$NC+=0.01511 22
184AUS G NC=0.01263 18$OC=0.00232 4$PC=0.0001569 23
```

#Record 5/11 Gamma "170.3(1) M1 24(4)" Line:332[5]
E=170.3(±.1)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L11:320.50(10) 2+ [E18-

```
184AU cG M          |a(K)exp=1.3 {I3} (2005Sa40).
184AU cG            E|g=170.1 {I2}, I|g=21 {I3} (1978Ne10).
```

E11=170.41; E18-E11-Eγ =0.11∈0.5σ]

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

.....help1:[490.91,0.07,170.3,0.1,320.5,0.1]
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: α(K)exp=1.3 {I3} (2005Sa40).

Eγ=170.1 {I2}, Iγ=21 {I3} (1978Ne10).

```
184AU  G 236.7     1  1.00E3 10E1                      0.0476
184AUS G KC=0.0391 6$LC=0.00652 10$MC=0.001509 22$NC+=0.000442 7
184AUS G NC=0.000372 6$OC=6.61E-5 10$PC=3.62E-6 5
184AU cG M          |a(K)exp=0.04 {I1}, |a(L)exp=0.05 {I2} (2005Sa40);
184AUxcG |a(K)exp=0.07 {I3} (1970FiZZ).
184AU cG            E|g=236.2 {I2}, I|g=1000 (1978Ne10)
```

#Record 6/11 Gamma "236.7(1) E1 1.00E3(10)" Line:337[6]
E=236.7(±.1)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L8:254.26(7) 2- [E18-E8=236.65; E18-E8-Eγ =-0.05∈0.5σ]

.....help1:[490.91,0.07,236.7,0.1,254.26,0.07]
Relative photon intensity:RI=1.00E3(10)
Multipolarity of transaction:M=E1
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: α(K)exp=0.04 {I1}, α(L)exp=0.05 {I2} (2005Sa40); α(K)exp=0.07 {I3} (1970FiZZ).

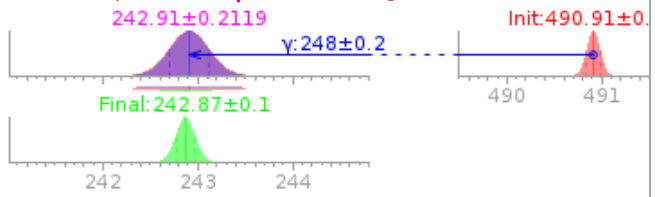
Eγ=236.2 {I2}, Iγ=1000 (1978Ne10)

```
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
```

#Record 7/11 Gamma "248.0(2) [M1,E2] 9(3)" Line:343[3]
E=248.0(±.2)keV

```
184AUS G NC=0.00420 22$OC=0.00073 8$PC=3.3E-5 23
```

Init.Level:L18:490.91(7) 1+ Final.Level:L7:242.87(10) (LE3)+ [E18-E7=248.04; E18-E7-Eγ =0.04∈0.2σ]

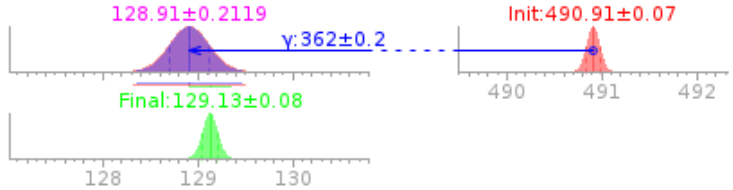


Show/Hide
- [ ] L-Fmt
- [ ] G-Fmt
- [x] Interpret.
- [x] #Record
- [ ] Hierarchy
- [x] G-plot
- [x] G-plot:ok
- [ ] L-plot/V
- [x] L-plot/H
- [ ] L_n in/out

.....help1:[490.91,0.07,248.0,0.2,242.87,0.1]
Relative photon intensity:RI=9(3)
Multipolarity of transaction:M=[M1,E2]
Total conversion coeff.:CC=0.37(±.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

```
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).
```

#Record 8/11 Gamma "362.0(2) (M1) 25(10)" Line:346[4]
E=362.0(±.2)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L4:129.13(8) (1,2)+ [E18-E4=361.78; E18-E4-Eγ =-0.22∈1σ]



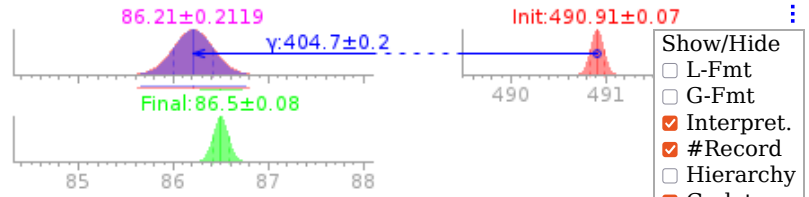
.....help1:[490.91,0.07,362.0,0.2,129.13,0.08]
Relative photon intensity:RI=25(10)
Multipolarity of transaction:M=(M1)
Total conversion coeff.:CC=0.200
$KC=0.1645 24 //Theoretical K- conversion coefficient
$LC=0.0270 4 //Theoretical L-shell conversion coefficient
$MC=0.00626 9 //Conversion coefficient for M 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: α(K)exp=0.16 {I8} (2005Sa40).

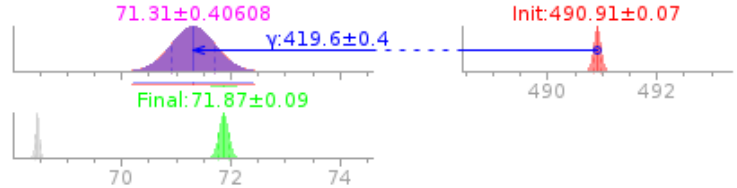
```
184AU  G  404.7     2 22      3
```

#Record 9/11 Gamma "404.7(2) 22(3)" Line:350
E=404.7(±.2)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L3:86.50(8) (2,3)+ [E18-E3=404.41; E18-E3-Eγ =-0.29∈1σ]

```
184AU  G  419.6     4 5       2
```

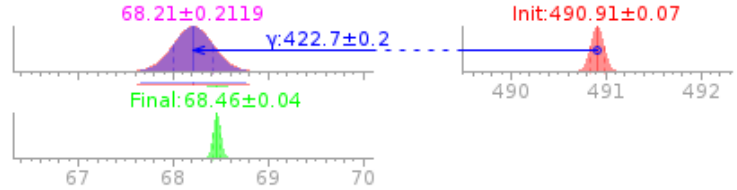


.....help1:[490.91,0.07,404.7,0.2,86.5,0.08]
Relative photon intensity:RI=22(3)
#Record 10/11 Gamma "419.6(4) 5(2)" Line:351
E=419.6(±.4)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L2:71.87(9) 2+,3+ [
E2=419.04; E18-E2-Eγ =-0.56∈1.5σ]




```
184AU  G  422.7     2 42      6
184AU cG           E|g=421.8 {I2}, I|g=59 {I7} (1978Ne10); may be
184AUxcG 419.6|g+422.7|g doublet.
```

.....help1:[490.91,0.07,419.6,0.4,71.87,0.09,68.46,0.04]
Relative photon intensity:RI=5(2)
#Record 11/11 Gamma "422.7(2) 42(6)" Line:352[3]
E=422.7(±.2)keV
Init.Level:L18:490.91(7) 1+ Final.Level:L1:68.46(4) 2+ [E18-
E1=422.45; E18-E1-Eγ =-0.25∈1σ]



.....help1:[490.91,0.07,422.7,0.2,68.46,0.04]
Relative photon intensity:RI=42(6)
Eγ=421.8 {I2}, Iγ=59 {I7} (1978Ne10); may be 419.6γ+422.7γ doublet.

```
184AU  L 600.60    22                                                  ?
184AU  E              0.03  3   0.13  13   6.9   5            0.16      16   ?
184AUS E EAV=1060 11$CK=0.681 4$CL=0.1189 7$CM+=0.03807 21
184AU  G  372.2     2 9       2                                         ?
```

#Record 20/20 Level "L19:600.60(22)" Line:355 Child:2
Energy=600.60(±.22)keV Q=?(questionable)
#Record 1/2 EC Line:356[2]
Intensity of β^+-decay branch: IB=0.03(±.03)
Intensity of electron capture branch:IE=0.13(±.13)
The log *ft* for (ε + β^+) transition :LOGFT=6.9(±.5)
Total (ε + β^+) decay intensity:TI=0.16(±.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
$CM+=0.03807 21
#Record 2/2 Gamma "372.2(2) 9(2)" Line:358
E=372.2(±.2)keV

Init.Level:L19:600.60(22) Final.Level:L6:228.40(7) 3- [E19-E6=372.2; E19-E6-Eγ =0∈0.1σ]

.....help1:[600.6,0.22,372.2,0.2,228.4,0.07]
Relative photon intensity:RI=9(2)

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

- 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