## $^{176}$Yb($^{28}$Si,F$\gamma$) 2000Bu06

| History | | | |
|---|---|---|---|
| Type | Author | Citation | Literature Cutoff Date |
| Full Evaluation | Jean Blachot | NDS 113, 2391 (2012) | 1-Sep-2012 |

E=145 MeV. Measured: $\gamma$, $\gamma\gamma$, $\gamma(\theta)$ using EUROGAM2 array which consisted of 15 large escape-suppressed Ge detectors and 24 escape-suppressed "clover" Ge detectors.

### $^{115}$Cd Levels

| E(level)[‡] | J$^\pi$[†] | Comments |
|---|---|---|
| 0.0 | 1/2$^+$ | |
| 181.0[#] | (11/2)$^-$ | Additional information 1. |
| 700.5[#] *2* | (15/2$^-$) | |
| 1478.1[#] *3* | (19/2$^-$) | |
| 2155.4[@] *4* | (21/2$^+$) | |
| 2397.2[#] *4* | (23/2$^-$) | |
| 2601.5[@] *4* | (25/2$^+$) | |
| 3188.0[#] *4* | (27/2$^-$) | |
| 3262.3[@] *5* | (29/2$^+$) | |
| 3832.8[#] *5* | (31/2$^-$) | |

[†] (g.s. and 181) from Adopted Levels, others from band assignment.
[‡] From E$\gamma$'s, assuming $\Delta$(E$\gamma$)=0.2 keV.
[#] Band(A): $h_{11/2}$ band.
[@] Band(B): Band based on (21/2$^+$).

### $\gamma$($^{115}$Cd)

| E$_\gamma$ | E$_i$(level) | J$_i^\pi$ | E$_f$ | J$_f^\pi$ |
|---|---|---|---|---|
| 446.1 | 2601.5 | (25/2$^+$) | 2155.4 | (21/2$^+$) |
| 519.5 | 700.5 | (15/2$^-$) | 181.0 | (11/2)$^-$ |
| 644.8 | 3832.8 | (31/2$^-$) | 3188.0 | (27/2$^-$) |
| 660.8 | 3262.3 | (29/2$^+$) | 2601.5 | (25/2$^+$) |
| 677.3 | 2155.4 | (21/2$^+$) | 1478.1 | (19/2$^-$) |
| 777.6 | 1478.1 | (19/2$^-$) | 700.5 | (15/2$^-$) |
| 790.8 | 3188.0 | (27/2$^-$) | 2397.2 | (23/2$^-$) |
| 919.1 | 2397.2 | (23/2$^-$) | 1478.1 | (19/2$^-$) |

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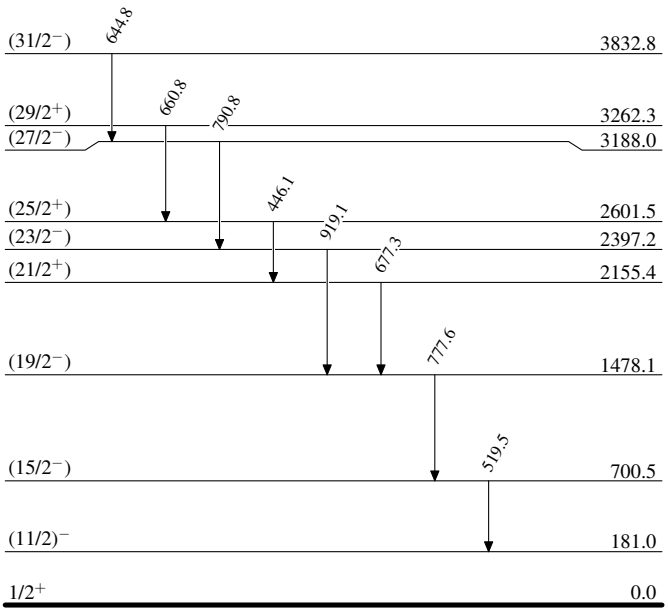
Level Scheme




$^{115}_{48}Cd_{67}$

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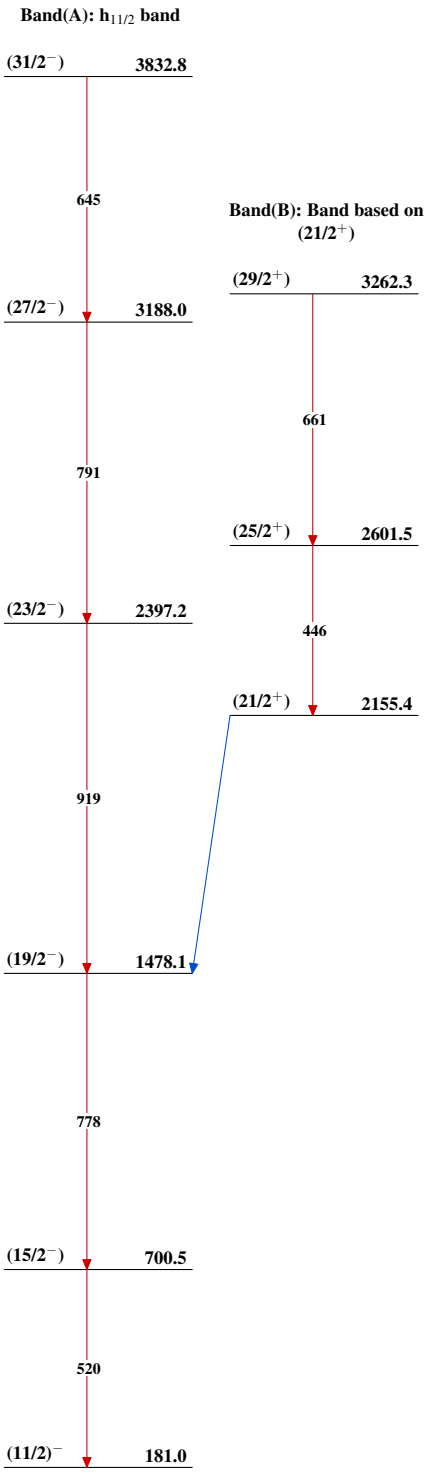


$^{115}_{48}Cd_{67}$