## $^{208}$Pb($^{18}$O,2$\alpha$n$\gamma$) 2006Ho03

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | E. A. Mccutchan, J. Lee, N. Jovancevic | NDS 147, 382 (2018) | 1-Dec-2017 |

2006Ho03: $^{217}$Rn was produced from $^{208}$Pb($^{18}$O,2$\alpha$,n$\gamma$) reaction with beam energy E=92 MeV at the Laboratori Nazionali di Legnaro, Italy; measured E$\gamma$, E$\alpha$, $\alpha\gamma$-coin, angular distributions and correlations. Detectors: GASP and ISIS arrays.

### $^{217}$Rn Levels

| E(level) | J$^{\pi}$ |
|---|---|
| 0 | 9/2$^+$ |

### $\gamma$($^{217}$Rn)

2006Ho03 provide only a spectrum, obtained by gating on a 317-keV transition in which they assign peaks to $^{217}$Rn. There is no discussion as to the assignment of the 317-keV transition to $^{217}$Rn.
89 keV-$\gamma$ also detected in $^{221}$Ra $\alpha$ decay.

| E$_\gamma$ | E$_i$(level) | E$_\gamma$ | E$_i$(level) | E$_\gamma$ | E$_i$(level) | E$_\gamma$ | E$_i$(level) |
|---|---|---|---|---|---|---|---|
| $^x$89 | | $^x$317 | | $^x$341 | | $^x$434 | |
| $^x$250 | | $^x$329 | | $^x$373 | | $^x$459 | |
| $^x$302 | | $^x$339 | | $^x$381 | | $^x$470 | |

$^x$ $\gamma$ ray not placed in level scheme.