## $^{209}$Bi($\gamma$,n) 1975Mc08

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | M. J. Martin | NDS 108,1583 (2007) | 1-Jun-2007 |

E=8998.8, 8533.4, 7818.9 (from Ni(n,$\gamma$)) E=7723.8 (from Al(n,$\gamma$)).
All data are from the E=8998.8 photon beam.

### $^{208}$Bi Levels

| E(level)‡ | $\Gamma_n/E(n)^2$† | E(level)‡ | $\Gamma_n/E(n)^2$† | E(level)‡ | $\Gamma_n/E(n)^2$† |
|---|---|---|---|---|---|
| 0.0# | 2.46& | 631[a] | 1.23 | 961 | 0.55 |
| 64@ | 1.78& | 652 | 0.36 | 1036 | 0.61 |
| 511 | 1.89 | 889 | 1.72 | 1071 | 1.25 |
| 603 | 0.71 | 939 | 2.67 | 1097 | 1.50 |

† Reduced widths are In arbitrary units.
‡ Authors quote rounded-off values from (p,d). On the basis of these energies, they obtain S(n)=7462 *3*.
# Also seen with E=7724, 7819 and 8533 photon sources.
@ Also seen with E=7819 photon source.
& $\Gamma_n/E(n)^2$(g.s./64 level)≈0.23 At E=7819.
[a] Authors suggest peak is a doublet because of a larger than normal FWHM.