

$^{76}\text{Ge}(^{14}\text{C},^{16}\text{O}),(^{18}\text{O},^{20}\text{Ne})$ [1984Be10](#),[1984Ha31](#)

| Type | History | | Literature Cutoff Date |
|-----------------|--------------|----------|------------------------|
| | Author | Citation | |
| Full Evaluation | Balraj Singh | ENSDF | 31-Mar-2017 |

[1984Be10](#): $^{76}\text{Ge}(^{14}\text{C},^{16}\text{O})$ E=72 MeV. Double focusing spectrometer. Energy accuracy ≈ 40 keV. DWBA fits to $\sigma(\theta)$. Deduced mass excess=-65620 40.

[1984Ha31](#): $^{76}\text{Ge}(^{18}\text{O},^{20}\text{Ne})$ E=84 MeV. Magnetic spectrograph of Q3D type. $\sigma(\theta)$ measured. Deduced mass excess=-65735 21. Comparison with mass model predictions.

 ^{74}Zn Levels

| E(level) [†] | J^π [‡] | Comments |
|-----------------------|----------------------|--|
| 0 | 0 ⁺ | J^π : DWBA fit for $J^\pi=0^+$ not good. 1984Be10 suggest that coupled channel effects are large, which may account for the discrepancy. |
| 670 30 | 2 ⁺ | J^π : DWBA fit for expected L=2 not good. 1984Be10 suggest that coupled channel effects are probably large which may account for the poor fit. |
| 1840 50 | | |

[†] From $^{76}\text{Ge}(^{14}\text{C},^{16}\text{O})$ ([1984Be10](#)). In $^{76}\text{Ge}(^{18}\text{O},^{20}\text{Ne})$ reaction only the g.s. is observed.

[‡] From Adopted Levels.