

${}^{27}\text{Al}(t,\alpha)$ 1961Hi11

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|-------------------------------|---------|------------------|------------------------|
| Full Evaluation | M. S. Basunia and A. M. Hurst | | NDS 134,1 (2016) | 1-Feb-2016 |

Triton beam, E=5.95 MeV; Magnetic Spectrometer, α -particle energy spectra measured at 30°, 40°, and 50° laboratory angle.
Deduced excited level energy. Also ${}^{25}\text{Mg}(d,p){}^{26}\text{Mg}$ and ${}^{24}\text{Mg}(t,p){}^{26}\text{Mg}$.

 ${}^{26}\text{Mg}$ Levels

| E(level) [†] | E(level) [†] | E(level) [†] | E(level) [†] |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 0.0 | 7092 | 8566 | 9707 15 |
| 1800 | 7241 | 8611 | 9760 15 |
| 2938 | 7252 | 8660 | 9814 15 |
| 3571 | 7338 | 8694 | 9841 15 |
| 3944 | 7352 | 8849 | 9895 15 |
| 4316 | 7377 | 8889 | 9931 15 |
| 4834 | 7400 | 8917 | 9970 15 |
| 4900 | 7531 | 9031 | 10028 15 |
| 4976 | 7670 | 9101 | 10090 15 |
| 5290 | 7716 | 9157 | 10118 15 |
| 5471 | 7762 | 9225 | 10213 15 |
| 5684 | 7816 | 9242 | 10272 15 |
| 5709 | 7948 | 9294 | 10316 15 |
| 6120 | 8030 | 9366 | 10358 15 |
| 6259 | 8189 | 9415 15 | 10400 15 |
| 6617 | 8233 | 9461 15 | 10419 15 |
| 6740 | 8384 | 9528 15 | 10483 15 |
| 6871 | 8448 | 9564 15 | 10515 15 |
| 6971 | 8488 | 9615 15 | |
| 7058 | 8518 | 9674 15 | |

[†] Uncertainty for level energies below 9415 keV is not mentioned for this reaction in 1961Hi11. 1961Hi11 note uncertainty for weighted average with data measured in other reactions by 1961Hi11. Based on noted uncertainty for higher excited energies – probably an uncertainty of 15 keV would be a good estimate.