
$^{54}\text{Fe}(\text{He},\text{He})$, $^{50}\text{Cr}(\text{He},\text{2n})$ 1977Mu03,1984Ay01

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|-------------------------------|---------|-------------------|------------------------|
| Full Evaluation | Wang Jimin and Huang Xiaolong | | NDS 144, 1 (2017) | 1-Mar-2016 |

1977Mu03: $^{54}\text{Fe}(\text{He},\text{He})$, E=70 MeV, FWHM \approx 50 keV estimated by the evaluator; measured Q, $\sigma(\theta)$. Q=-18.697 MeV 15, mass excess=-40.201 MeV 12 for ^{51}Fe .

1984Ay01: $^{50}\text{Cr}(\text{He},\text{2n})$, E=27 MeV, measured $E\gamma$, I γ , I β , and T_{1/2}.

^{51}Fe Levels

| E(level) | J $^\pi$ [†] | T _{1/2} | Comments |
|----------|-----------------------|------------------|-------------------------------------|
| 0 | 5/2 ⁻ | 305 ms 5 | J $^\pi$: from the Adopted Levels. |
| 262 6 | (7/2 ⁻) | | |
| 1218 10 | | | |
| 1525 9 | | | |
| 1866 13 | | | |
| 2063 7 | (3/2 ⁺) | | |
| 2489 8 | (1/2 ⁺) | | |
| 3013 9 | | | |
| 3127 9 | | | |
| 3310 10 | | | |
| 3964 12 | | | E(level): doublet. |
| 4456 13 | | | |

[†] From comparison of the T_z=-1/2 with T_z=1/2 levels, and comparison of the angular distribution of the states of interest with those from the $^{42}\text{Ca}(\text{He},\text{He})^{39}\text{Ca}$, except as noted.