
 $^{36}\text{Ar}(^3\text{He},\text{t}) \quad 2010\text{Wr02,1970Dz04}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh		NDS 113, 1 (2012)	31-Dec-2011

2010Wr02 (also **2010Wr01**): E=32 MeV. Tritons analyzed by Munich Q3D magnetic spectrograph. Measurements at 10° and 20°.
 Energies and parameters of proton resonances corresponding to $^{35}\text{Ar}(\text{p},\gamma)$ reaction of astrophysical significance were deduced from these data. FWHM=13-18 keV.

Additional information 1.

1970Dz04 (also **1971MiZS** thesis): E=22.17 MeV, measured triton spectra using a counter telescope. FWHM \approx 100 keV.

1966Ma58: measured Q value.

 ^{36}K Levels

E(level) [†]	Relative intensity ^a	Comments
0 [‡]	40	
800 [‡] 15	50	
1112.35 [#] 45	45	E(level): 1115 15 (1970Dz04).
1618.64 [#] 72	30	E(level): 1590 20 (1970Dz04), not well resolved from 1670 level.
1706.8 6	40	E(level): 1670 20 (1970Dz04).
1918.3 7	40	T=1 E(level): 1890 20 (1970Dz04).
2196.9 7		
2281.8 7	110	E(level): 2270 20 (1970Dz04).
2446.2 6	30	E(level): 2410 30 (1970Dz04).
2578.7 [@] 17	50	E(level): 2560 30 (1970Dz04).
2628.4? ^{@&} 30		
2869.4 [@] 20	40	E(level): 2850 30 (1970Dz04).
3383.0 [@] 31	10	E(level): 3350 40 (1970Dz04).
3627? ^{@&} 6		
3653.2 [@] 21		E(level): a peak near 3630 is present in spectral figure 1 of 1970Dz04 .

[†] From **2010Wr02**, unless otherwise stated.

[‡] From **1970Dz04**.

[#] From **2010Wr01**, evaluated from ^{36}Ca decay data. This value used as calibration point for the triton spectrum.

[@] Tentative detection, not kinematically verified.

[&] Weak peak, low statistics.

^a At 30° (from figure 1 of **1970Dz04**).