

$^{40}\text{Ar}(^6\text{Li,d})$ 1976Be27,1971Fo13

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh and John A. Cameron		NDS 112, 2357 (2011)	31-Jul-2011

1976Be27, 1971Fo13: E=17, 22 MeV $^6\text{Li}^{3+}$ beam of 0.5-1.0 μA produced from the University of Pennsylvania tandem accelerator.

Target of natural Ar gas. Deuterons momentum analyzed with a multiangle spectrograph. Measured $\sigma(E_d, \theta)$. Deduced levels, J^π , L from DWBA analysis.

Target ^{40}Ar $J^\pi=0^+$.

 ^{44}Ca Levels

ΔE : Uncertainty estimated by the evaluators from measured spectrum in 1976Be27.

E(level) [†]	J^π	L [†]	Relative yield [‡]
0	0 ⁺	0	100
1160 50	2 ⁺	2 [#]	
1880 50	0 ⁺	0	17
2280 50	4 ⁺	4 [#]	
2660 50	2 ⁺	2 [#]	
3040 50			
3590 50	0 ⁺	0	<1.5
5850 50	0 ⁺	0	89

[†] From 1976Be27, unless otherwise stated.

[‡] From 1976Be27.

[#] From 1971Fo13.

[@] Uncertainty estimated by the evaluators from measured spectrum in 1976Be27.