

${}^{39}\text{K}({}^3\text{He},\alpha\gamma)$ 1971En02

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

1971En02: E=9.0 MeV ${}^3\text{He}$ beam was produced from the Utrecht 6-MV tandem Van de Graaff accelerator. Target was 700 $\mu\text{g}/\text{cm}^2$ natural KBr on a 500 $\mu\text{g}/\text{cm}^2$ gold backing. α particles were detected with two Si surface-barrier detectors and γ rays were detected with a Ge(Li) detector. Measured E_γ , $\alpha\gamma$ -coin, Doppler-shift attenuation. Deduced levels, J, π , $T_{1/2}$, transition strengths. 1971En02 also report data for ${}^{35}\text{Cl}(\alpha,n\gamma){}^{38}\text{K}$.

 ${}^{38}\text{K}$ Levels

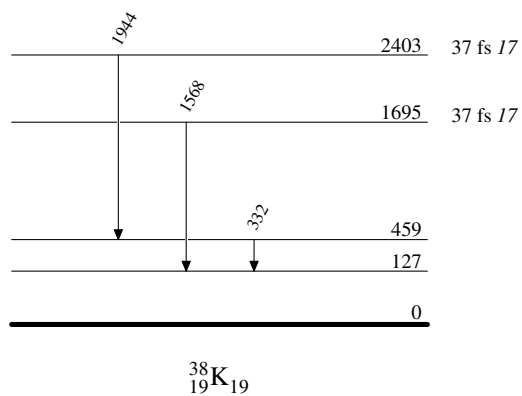
<u>E(level)[†]</u>	<u>$T_{1/2}$[‡]</u>
0	
127	
459 6	
1695 5	37 fs 17
2403 6	37 fs 17

[†] From 1971En02.

[‡] From DSAM (1971En02).

 $\gamma({}^{38}\text{K})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>E_f</u>
332 2	459	127
1568	1695	127
1944 2	2403	459

${}^{39}\text{K}({}^3\text{He}, \alpha\gamma)$ 1971En02Level Scheme ${}^{38}_{19}\text{K}_{19}$