

${}^7\text{Li}({}^{16}\text{O},\gamma)$ 1969Fe05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia [#] , A. Chakraborty ^{##}		NDS 171,1 (2021)	1-Jun-2020

Other: 1986No05.

E= 12-32 MeV; γ rays were measured by NaI detector. Resolution $\sim 5.5\%$ for 25 MeV γ -ray energy. Measured $\sigma(E;E\gamma,\theta)$;

Deduced resonance level, level-width. Also studied ${}^{11}\text{B}({}^{12}\text{C},\gamma)$ reaction at 90° – only weak structure of ${}^{23}\text{Na}$ was observed.

 ${}^{23}\text{Na}$ Levels

E(level) [†]	Γ	Comments
0.0		
440		
2076		
25400	0.67 MeV 20	E(level): From 1969Fe05. $\sigma_{\text{peak}}=2.4 \mu\text{b}$ 7. (2J+1) $\Gamma_\gamma \sim 0.5$ keV.

[†] From Adopted Levels, except where otherwise noted.

 $\gamma({}^{23}\text{Na})$

E_γ [†]	$E_i(\text{level})$	E_f
23311	25400	2076
24945 [‡]	25400	440
25385 [‡]	25400	0.0

[†] From level energy difference, recoil energy subtracted.

[‡] Unresolved.

${}^7\text{Li}({}^{16}\text{O},\gamma)$ 1969Fe05Level Scheme