

$^{28}\text{Si}(n,\gamma)$ E=31.7,55.9 keV 1976Ke04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 113, 909 (2012)	1-Jan-2012

Others: 1992Ki23, 1988Ki02, 1984Li10, 1980Jo02, 1979Li02.

1976Ke04: $^{29}\text{Si}(n,\gamma)$, E=31.7, 38.8, 55.9, 67.7 keV; natural target; Ge(Li) detector; measured E_γ , deduced neutron energy, excitation energy, Γ_γ .

 ^{29}Si Levels

E(level) [†]	E(level) [†]	E(level) [†]	E(level) [†]
0	2426.7 23	8507.5 17	8655 [‡]
1274.4 14	3065 4	8529.2 17	9019 [‡]
2029.6 15	4936.8 22	8541.3 10	9259 [‡]

[†] From a least-squares fit to γ -ray energies, except otherwise noted.

[‡] From 1988Ki02.

 $\gamma(^{29}\text{Si})$

E_γ [†]	$g\Gamma_n\Gamma_\gamma/\Gamma$	$E_i(\text{level})$	E_f	Γ_γ [@]	E_γ [†]	$g\Gamma_n\Gamma_\gamma/\Gamma$	$E_i(\text{level})$	E_f	Γ_γ [@]
3571.0 20	35.0 13	8507.5	4936.8		6991 [‡]	22 [#] 13	9019	2029.6	
3591 3	76.0 24	8529.2	4936.8	76.0 24	7232.0 10	14.0 6	8507.5	1274.4	
3604 5	18 12	8541.3	4936.8	9 6	7254.0 10	25.0 13	8529.2	1274.4	25.0 13
3720 [‡]		8655	4936.8	3.5 ^{&} 7	7266.0 10	907 33	8541.3	1274.4	454 13
5476 3	55 11	8541.3	3065	28 6	7381 [‡]		8655	1274.4	2.7 ^{&} 7
5952 [‡]	13 [#] 4	9019	3065		7745 [‡]	29.1 [#] 19	9019	1274.4	
6114.0 20	252 23	8541.3	2426.7	126 12	8540.0 10	688 24	8541.3	0	334 12
6511.0 10	339 24	8541.3	2029.6	170 12	8654 [‡]		8655	0	2.3 ^{&} 6
6593 [‡]	18 [#] 4	9019	2426.7		9018 [‡]	100 [#] 13	9019	0	

[†] From 1976Ke04, except otherwise noted.

[‡] Deduced from level energy differences, E_i-E_f and recoil energy subtracted.

[#] Relative intensity from 1980Jo02.

[@] In units of meV, except otherwise noted.




[&] From 1988Ki02. In units of eV.

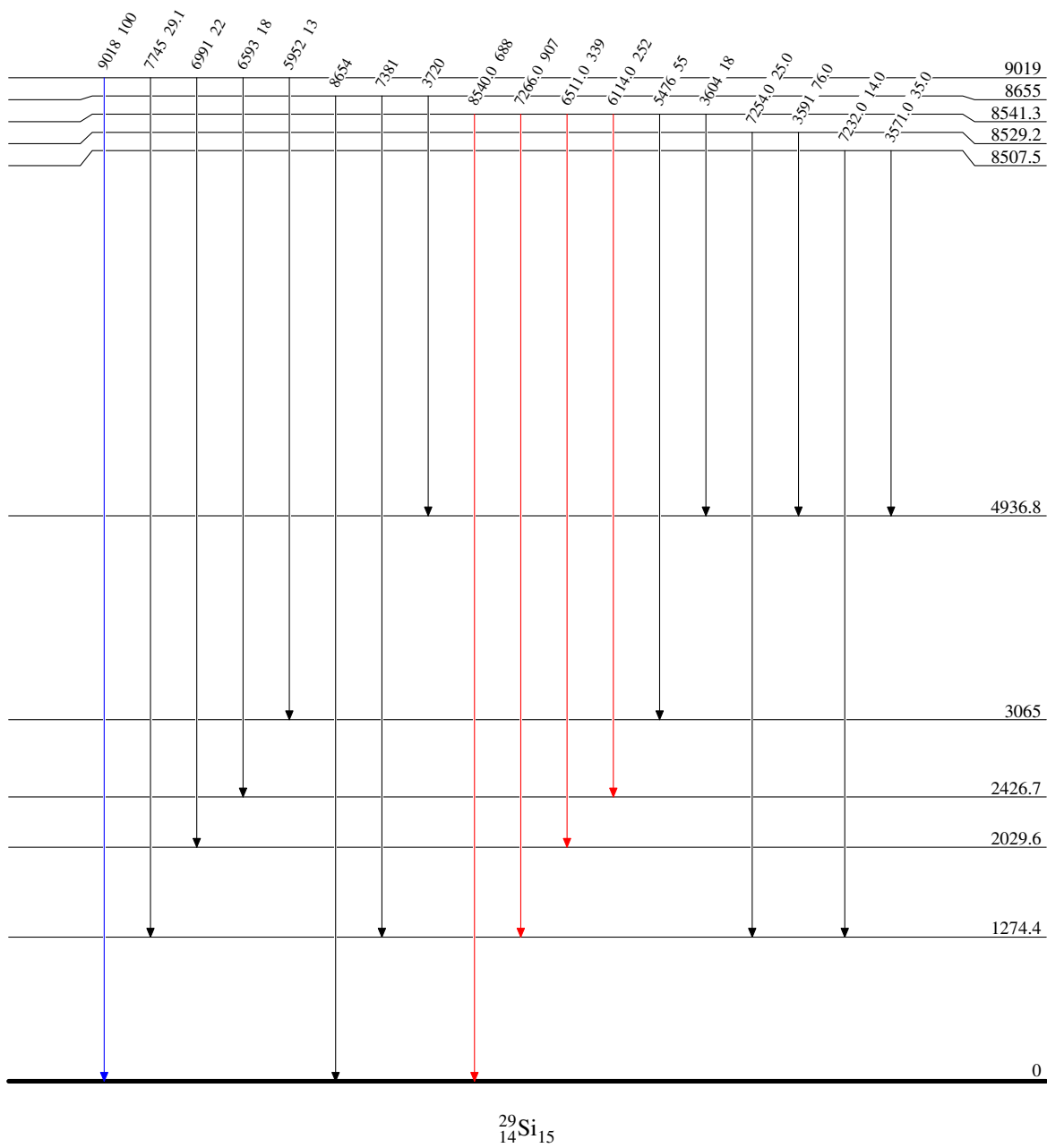
$^{28}\text{Si}(n,\gamma) E=31.7,55.9 \text{ keV}$ 1976Ke04

Level Scheme

Intensities: Relative I_γ

Legend

-  $I_\gamma < 2\% \times I_\gamma^{max}$
-  $I_\gamma < 10\% \times I_\gamma^{max}$
-  $I_\gamma > 10\% \times I_\gamma^{max}$

 $^{29}_{14}\text{Si}_{15}$