^{46}Ti(^{28}Si,4pγ) 2000Mu23

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan	NDS 136, 1 (2016)	1-Jul-2016

E=110 MeV. Measured γ, $\gamma\gamma(\theta)$, DCO. An array of eight Compton-suppressed HPGe detectors in conjunction with a recoil mass spectrometer.

^{70}Ge Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
0#	0^+	3295.0#	6^+	4296.0	7^-	6158.0&	(11^-)
1039.0#	2^+	3415.0&	5^-	4429.0	8^+	6547.1	
1214.0	0^+	3665.0&	6^-	4849.0		6601.1	
1707.0@	2^+	3752.0		4906.0&	(9^-)	6784.0&	(13^-)
2152.0#	4^+	3899.0		5221.0@	(8^+)	8056&	(15^-)
2561.0&	3^-	3953.0&	7^-	5240.0#	10^+	9617&	(17^-)
2805.0@	4^+	4052.0@	(6^+)	5296.0		11334&	(19^-)
3058.0	4^+	4201.0#	8^+	6004.0		13171&	(21^-)

† From a least-squares fit to Eγ's, by evaluators.
‡ Deduced from DCO measurements. The details of the measurements were not given in 2000Mu23.
# Band(A): sequence based on g.s..
@ Band(B): sequence based on second 2^+.
& Band(C): sequence based on 3^-.

γ(^{70}Ge)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	E_γ	E_i(level)	J_i^π	E_f	J_f^π
175	1214.0	0^+	1039.0	2^+	1098	2805.0	4^+	1707.0	2^+
234	3899.0		3665.0	6^-	1113	2152.0	4^+	1039.0	2^+
250	3665.0	6^-	3415.0	5^-	1134	4429.0	8^+	3295.0	6^+
288	3953.0	7^-	3665.0	6^-	1143	3295.0	6^+	2152.0	4^+
343	4296.0	7^-	3953.0	7^-	1155	6004.0		4849.0	
357	3415.0	5^-	3058.0	4^+	1169	5221.0	(8^+)	4052.0	(6^+)
484	3899.0		3415.0	5^-	1247	4052.0	(6^+)	2805.0	4^+
626	6784.0	(13^-)	6158.0	(11^-)	1252	6158.0	(11^-)	4906.0	(9^-)
658	3953.0	7^-	3295.0	6^+	1263	3415.0	5^-	2152.0	4^+
668	1707.0	2^+	1039.0	2^+	1272	8056	(15^-)	6784.0	(13^-)
854	3415.0	5^-	2561.0	3^-	1305	6601.1		5296.0	
896	4849.0		3953.0	7^-	1343	5296.0		3953.0	7^-
906	3058.0	4^+	2152.0	4^+	1522	2561.0	3^-	1039.0	2^+
906	4201.0	8^+	3295.0	6^+	1561	9617	(17^-)	8056	(15^-)
947	3752.0		2805.0	4^+	1641	6547.1		4906.0	(9^-)
953	4906.0	(9^-)	3953.0	7^-	1717	11334	(19^-)	9617	(17^-)
1001	4296.0	7^-	3295.0	6^+	1837	13171	(21^-)	11334	(19^-)
1039	1039.0	2^+	0	0^+	2019	3058.0	4^+	1039.0	2^+
1039	5240.0	10^+	4201.0	8^+					

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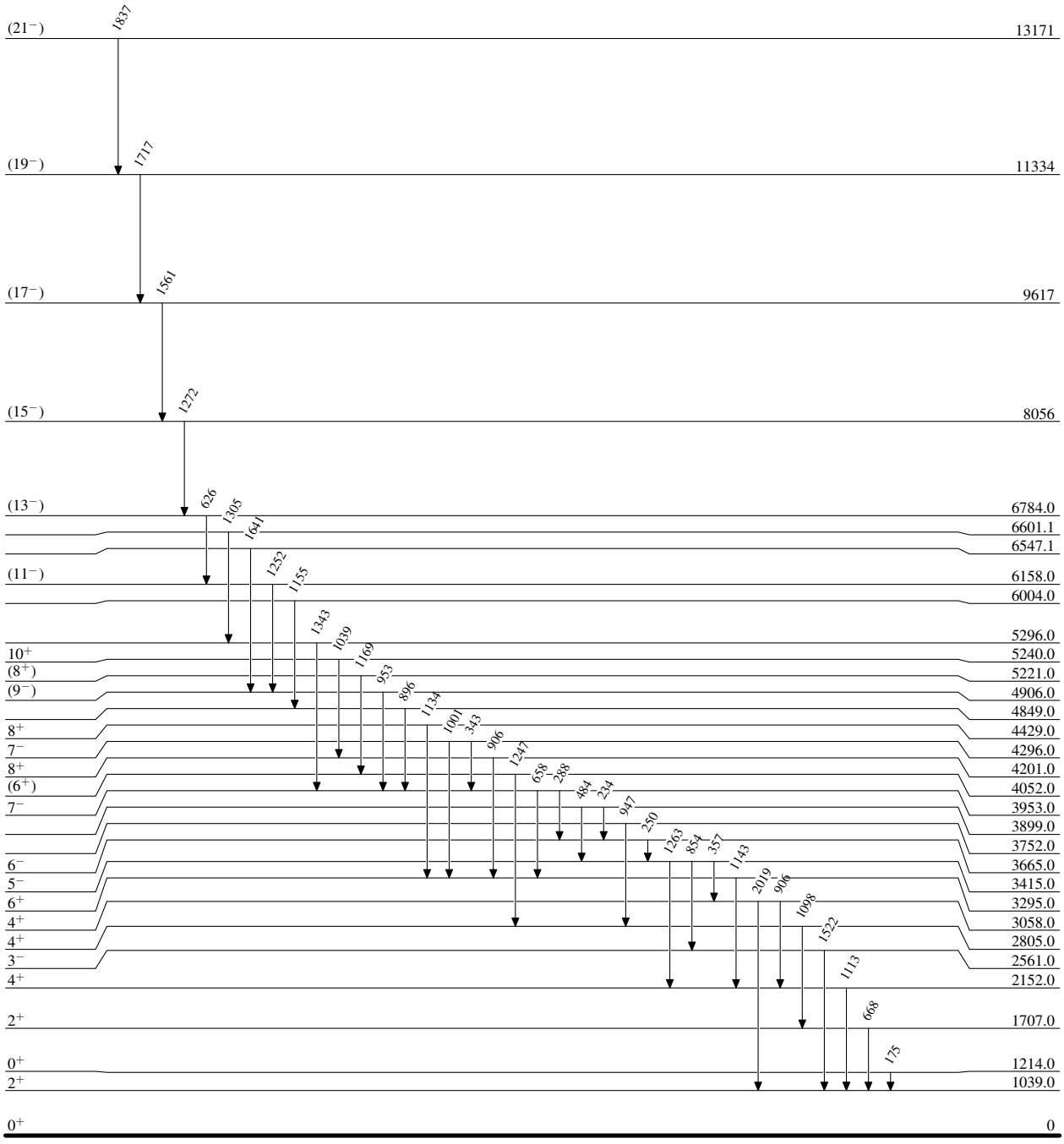
Level Scheme



$^{70}_{32}Ge_{38}$

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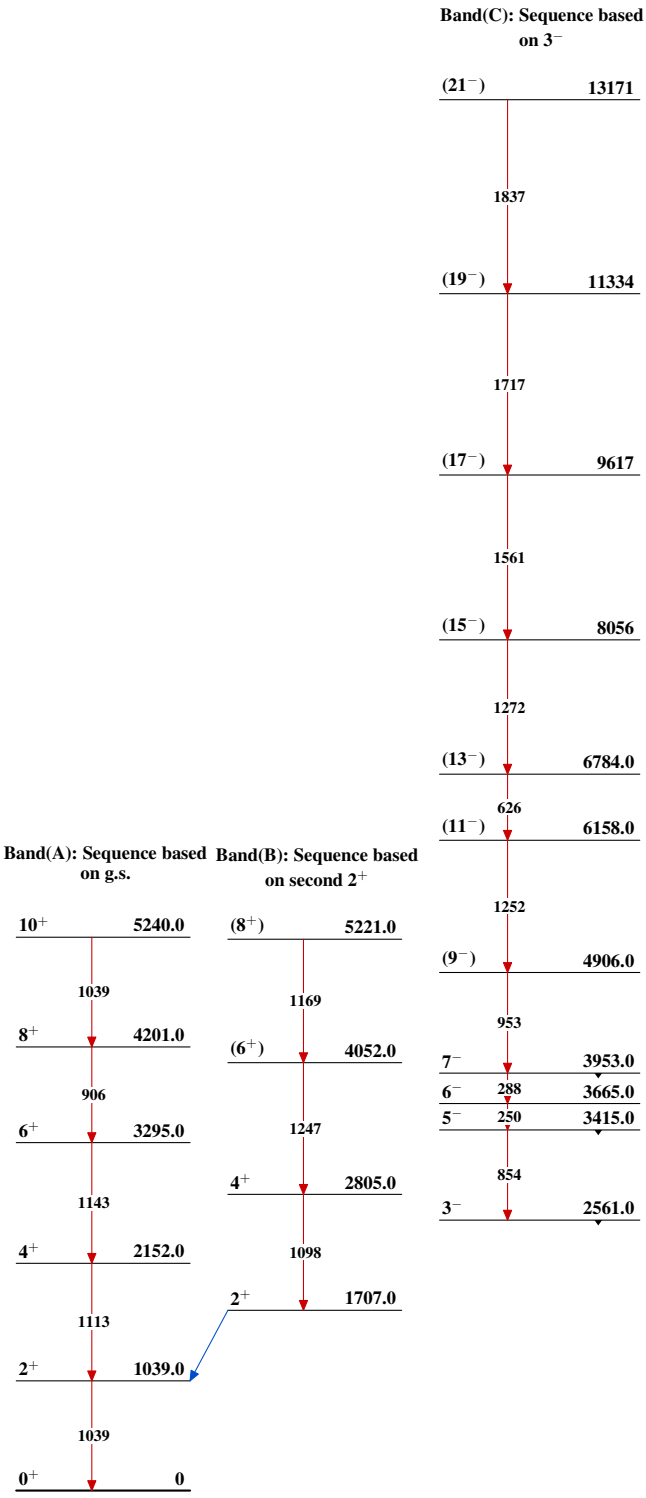

$^{70}_{32}Ge_{38}$