

⁹⁶Ru(19F,3pnγ) 1995La11

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

E= 90 MeV. Measured γ, γγ, γγ(θ)(DCO) with an array of six Ge detectors.
Includes ⁶⁴Ni(⁵⁶Fe,AP4NG) E=236 MeV. Gammasphere, 36 Compton-suppressed Ge detector array.

¹¹¹Sn Levels

E(level)	J ^π	E(level)	J ^π	E(level)	J ^π	E(level)	J ^π
0	7/2 ⁺	2985 [†]	19/2 ⁻	5747 [†]	31/2 ⁻	12452 [†]	(55/2 ⁻)
979 [†]	11/2 ⁻	3125	19/2 ⁻	6690 [†]	35/2 ⁻	13987 [†]	(59/2 ⁻)
1348	11/2 ⁺	3228	19/2 ⁻	7686 [†]	39/2 ⁻	15746 [†]	(63/2 ⁻)
2062 [†]	15/2 ⁻	3307	19/2 ⁻	8740 [†]	43/2 ⁻	17816? [†]	(67/2 ⁻)
2066	15/2 ⁺	4076 [†]	23/2 ⁻	9865 [†]	47/2 ⁻		
2258	17/2 ⁺	4878 [†]	27/2 ⁻	11085 [†]	(51/2 ⁻)		

[†] Band(A): νh_{11/2} coupled to (πg_{7/2}²)(πg_{9/2}⁻²) In ¹¹⁰Sn.

γ(¹¹¹Sn)

E _γ	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [†]	E _γ	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [†]
192	2258	17/2 ⁺	2066	15/2 ⁺		1054	8740	43/2 ⁻	7686	39/2 ⁻	Q
718	2066	15/2 ⁺	1348	11/2 ⁺		1062	3125	19/2 ⁻	2062	15/2 ⁻	
727	2985	19/2 ⁻	2258	17/2 ⁺		1083	2062	15/2 ⁻	979	11/2 ⁻	
769	4076	23/2 ⁻	3307	19/2 ⁻		1091	4076	23/2 ⁻	2985	19/2 ⁻	
802	4878	27/2 ⁻	4076	23/2 ⁻	Q	1125	9865	47/2 ⁻	8740	43/2 ⁻	Q
847	4076	23/2 ⁻	3228	19/2 ⁻		1166	3228	19/2 ⁻	2062	15/2 ⁻	
867	3125	19/2 ⁻	2258	17/2 ⁺		1220	11085	(51/2 ⁻)	9865	47/2 ⁻	Q
869	5747	31/2 ⁻	4878	27/2 ⁻	Q	1245	3307	19/2 ⁻	2062	15/2 ⁻	
922	2985	19/2 ⁻	2062	15/2 ⁻		1348	1348	11/2 ⁺	0	7/2 ⁺	
943	6690	35/2 ⁻	5747	31/2 ⁻	Q	1367	12452	(55/2 ⁻)	11085	(51/2 ⁻)	Q
951	4076	23/2 ⁻	3125	19/2 ⁻		1535	13987	(59/2 ⁻)	12452	(55/2 ⁻)	Q
979	979	11/2 ⁻	0	7/2 ⁺		1759	15746	(63/2 ⁻)	13987	(59/2 ⁻)	Q
996	7686	39/2 ⁻	6690	35/2 ⁻	Q	2070 [‡]	17816?	(67/2 ⁻)	15746	(63/2 ⁻)	

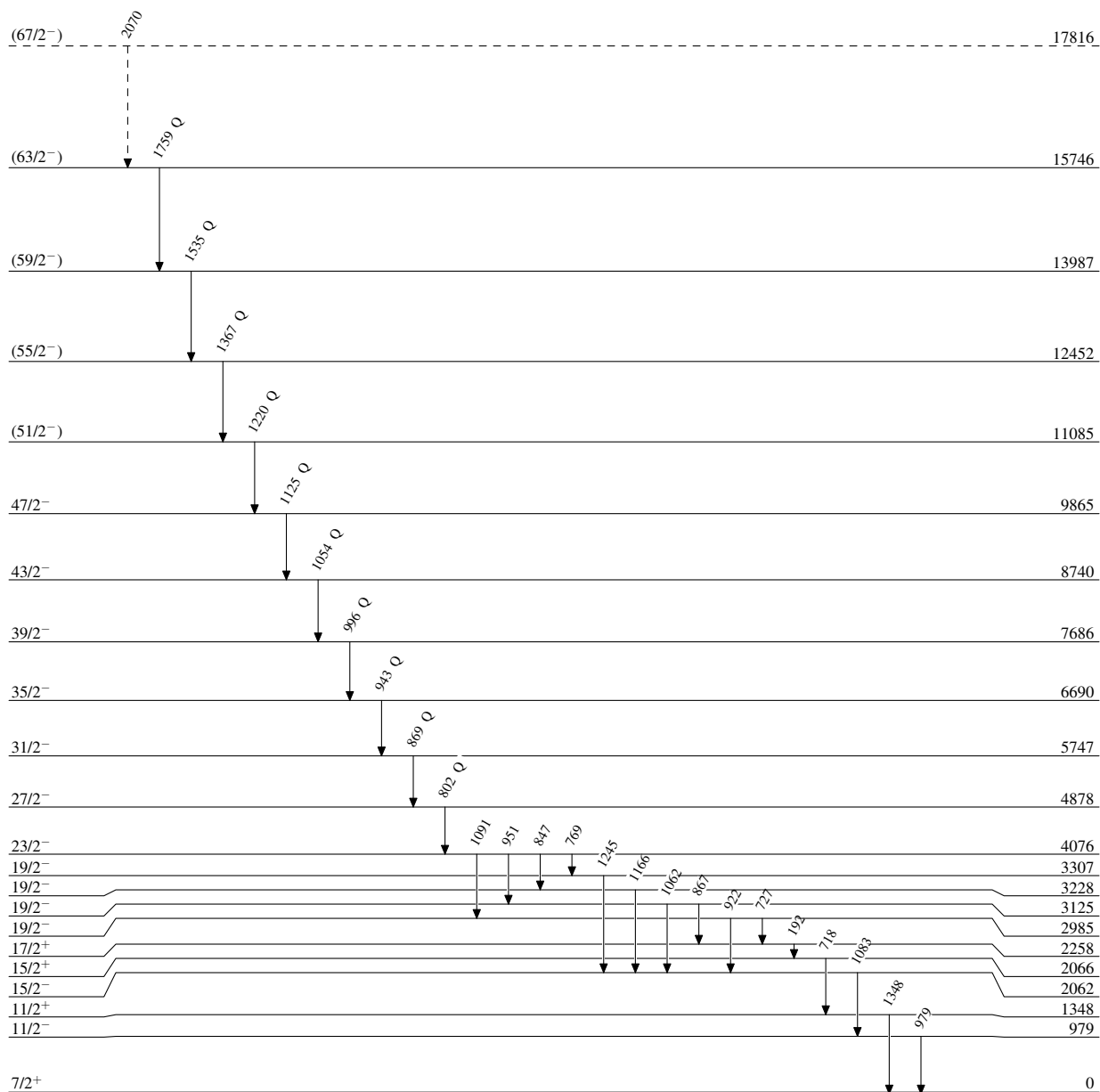
[†] Stretched Q from DCO ratios.

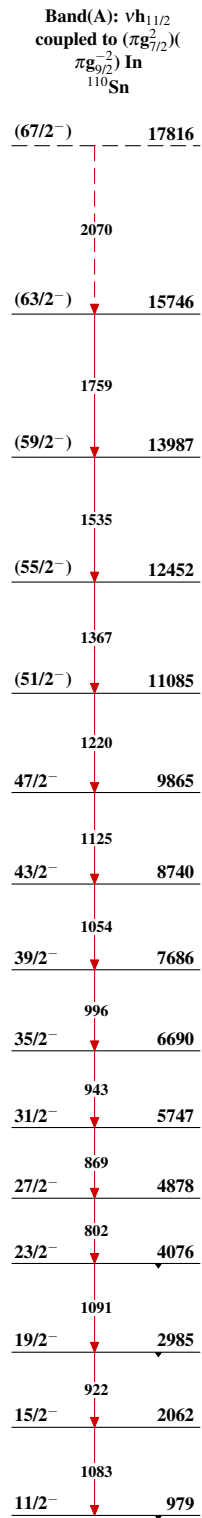
[‡] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

-----► γ Decay (Uncertain) $^{111}_{50}\text{Sn}_{61}$

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