Be(^{58}Ni,Xγ) 2011Ho02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 126, 1 (2015)	31-Mar-2015

2011Ho02: E(^{58}Ni)=550 MeV/nucleon beam was produced from the UNILAC-SIS accelerator complex at the GSI Helmholtzzentrum fur Schwerionenforschung mbH, Darmstadt, Germany. Target of 4 g/cm^2 Be. Reaction products were separated by a 70 m long fragment separator (FRS) and identified by time-of-flight and energy loss in the MUSIC detectors. γ-rays were detected by 15 high-resolution and high-efficiency CLUSTER germanium detectors. Measured Eγ, Iγ. Deduced levels, $T_{1/2}$.

^{43}Ti Levels

E(level)	J^π[†]	$T_{1/2}$	Comments
0	$7/2^-$		
312.7 *2*	$(3/2^+)$	11.7 μs *3*	$T_{1/2}$: measured by 2011Ho02, γ(t). Adopted value of 11.9 μs *3* is given in 2011Ho02 based on averaging current value with literature value taken from ENSDF database.
1858	$(11/2^-)$		
2952	$(15/2^-)$		
3067	$(19/2^-)$	551 ns *7*	$T_{1/2}$: measured by 2011Ho02, γ(t). Adopted value of 556 ns *5* is given in 2011Ho02 based on averaging current value with literature value taken from ENSDF database.

[†] From Adopted Levels.

γ(^{43}Ti)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[†]	Comments
114.7 *2*	3067	$(19/2^-)$	2952	$(15/2^-)$	[E2]	0.201 *4*	B(E2)(W.u.)=4.82 *8* α(K)=0.181 *3*; α(L)=0.0171 *3*; α(M)=0.00216 *4*; α(N)=0.0001071 *17*
312.7 *2*	312.7	$(3/2^+)$	0	$7/2^-$	[M2]	0.0048	B(M2)(W.u.)=0.072 *2* α(K)=0.00432 *7*; α(L)=0.000400 *6*; α(M)=5.12×10^{-5} *8*; α(N)=2.73×10^{-6} *4*
1094	2952	$(15/2^-)$	1858	$(11/2^-)$	[E2]		
1858	1858	$(11/2^-)$	0	$7/2^-$	[E2]		

[†] Additional information 1.

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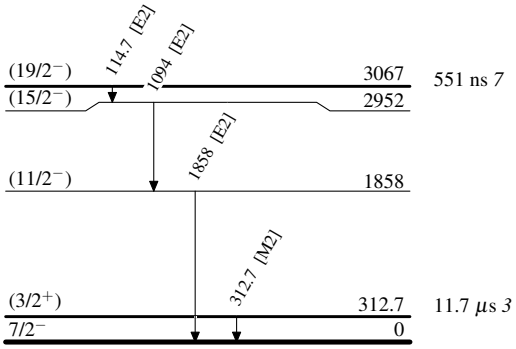
Level Scheme



$^{43}_{22}Ti_{21}$