Coulomb excitation 2007Kr19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, D. Symochko(a), M. Fadil(b), and J. K. Tuli	NDS 112, 1949 (2011)	1-Jun-2010

Beam=^{142}Xe, target=^{96}Mo.

E=2.84 MeV/nucleon beam provided by LINAC accelerator at REX-ISOLDE facility at CERN. Measured Eγ's using MINIBALL array of eight segmented HPGe detectors. Kinematics determined with double-sided silicon strip detector.

^{142}Xe Levels

E(level)†	J^π	$T_{1/2}$	Comments
0	0^+		
287.20 *20*	2^+	0.20 ns *3*	B(E2)↑=0.69 *10* (2007Kr19) Results for B(E2)↑ are preliminary as stated by 2007Kr19. $T_{1/2}$: Deduced by evaluators using B(E2) value.

† From adopted dataset.

γ(^{142}Xe)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α†	Comments
287.2 *2*	287.20	2^+	0	0^+	[E2]	0.0481	α(K)=0.0395 *6*; α(L)=0.00688 *10*; α(M)=0.001426 *21*; α(N+..)=0.000322 *5* α(N)=0.000289 *5*; α(O)=3.30×10^{-5} *5*

† Additional information 1.

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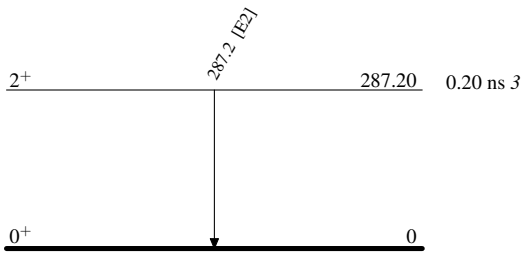
Level Scheme



$^{142}_{54}Xe_{88}$