Coulomb excitation 1969BlZW,1956Fa29,1956Te26

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

All experiments measured the thick target γ-ray yields of $^{50}V(\alpha,\alpha'\gamma)$.

1956Fa29: E=4.4 MeV beam from the Naval Research Laboratory 5-MV Van de Graaff accelerator. 22.8% enriched target. NaI(90°).

1956Te26: E=6.5 MeV beam from ORNL accelerator. 22% enriched. NaI(0°) with nearly 2π solid angle.

1969BlZW: E=2-5 MeV. 50% enriched. B(E2)↑ measured relative to B(E2)↑(^{51}V,320)=0.0101 *10*; renormalized by the evaluators to B(E2)↑(^{51}V,320)=0.0132 *11* (1991Zh07, 1970Ho16).

^{50}V Levels

E(level)	J^{π} †	Comments
0	6^+	
225 *3*	5^+	B(E2)↑=0.0118 *13* B(E2)↑: weighted average of 0.0124 *13* (1969BlZW), 0.011 *2* (1956Fa29), and 0.011 *2* (1956Te26).
320 *3*	4^+	B(E2)↑=0.0031 *5* (1969BlZW)

† From Adopted Levels.

$\gamma(^{50}V)$

E_γ †	E_i(level)	J_i^π	E_f	J_f^π
225 *3*	225	5^+	0	6^+
320 *3*	320	4^+	0	6^+

† From 1956Te26.

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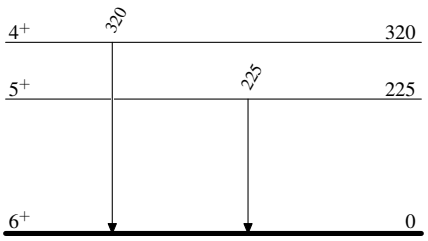
Level Scheme



$^{50}_{23}V_{27}$