Coulomb excitation   2004Ra27,2005Va31

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	28-Feb-2018

2005Va31, 2004Be56: ^{48}Ti(^{132}Sn,^{132}Sn'γ) E(^{132}Sn)=470 and 495 MeV. Scattered target and beam recoils were detected in double-sided Si-strip detector covering a full range of center-of-mass angles (25° to 180°). The γ rays were detected by an array of 150 BaF$_2$ crystals.

2005Ra09, 2004Ra27: C(^{132}Sn,^{132}Sn'γ): measured Eγ, Iγ, (particle)γ-coin following projectile Coulomb Excit; deduced B(E2).

All measurements are from experiments at HRIBF-ORNL facility but using different targets. The above references are from conference proceedings.

^{132}Sn Levels

E(level)	$J^{\pi\dagger}$	Comments
0	0^+	
4040	2^+	B(E2)↑=0.11 *3*
		B(E2)↑: 0.11 *3* (2005Ra09, previous value was 0.14 *5* in 2004Ra27) and 0.11 *3* (2005Va31, previous value was 0.14 *6* in 2004Be56). All the values are listed as preliminary by the authors.

† From Adopted Levels.

$\gamma(^{132}$Sn$)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π
4040	4040	2^+	0	0^+

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Level Scheme

$^{132}_{50}Sn_{82}$