Coulomb excitation **2011Al25,2012Ku24,2013Al10**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

2011AL25: E=3 MeV/nucleon ^{126}Sn beam from HRIBF, targets= natural^{12}C and ^{50}Ti (90.5% enriched) targets. Measured Eγ, particle-γ coin. by 11 HpGe γ-rays detectors and array of CsI crystals particle detectors. Deduced quadrupole moments, B(E2) values.

2012Ku24: 378-MeV beam=^{126}Sn from HRIBF, target=^{12}C, 1.0 mg/cm^2 thick. Measured Eγ, particle-γ coin, by four Clover Ge detectors and an array of three solar cells partivle detectors. Measured level life time by Doppler shift attenuation method (DSAM) and g factor by transient-field method.

2013AL10: Beam=^{126}Sn, ≈3 MeV/nucleon from HRIBF. Target=C and Ti. Measured (Particle)$\gamma(\theta)$. deduced g factor of first 2$^+$ state by recoil-in-vacuum technique.

^{126}Sn Levels

E(level)	J$^\pi$ †	T$_{1/2}$	Comments
0	0$^+$		
1141	2$^+$	1.04 ps *14*	μ=−0.24 *6*; B(E2)↑= 0.127 *8* μ: from g factor=0.12 *3* (2013Al10), Sign from g factor=−0.25 *21* (2012Ku24). B(E2)↑: from 2011Al25. T$_{1/2}$: from DSAM (2012Ku24). Q=+0.08 *11* without including high-lying states; −0.02 *11* (positive interference term) and +0.01 *11* (negative interference term) with high-lying states included (2011Al25).

† From Adopted Levels.

$\gamma(^{126}Sn)$

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
1141	1141	2$^+$	0	0$^+$

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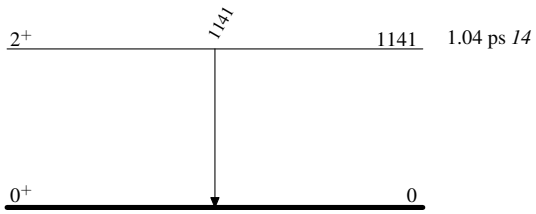
Level Scheme



$^{126}_{50}Sn_{76}$