^{9}Be(^{133}Sn,Xγ) 2013Wa28

History

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

2013Wa28: In-beam γ-ray spectroscopy from ^{9}Be+^{133}Sn interaction. ^{133}Sn beam at 230 MeV were produced as cocktail beam in the fission of 345 MeV ^{238}U beam by tungsten target followed by fragment separation using BigRIPS separator at RIBF-RIKEN facility. Fragments were separated using ΔE-E and TOF techniques. The cocktail beam of mainly ^{132,133}Sn at 230 MeV was incident on a secondary ^{9}Be target inducing reactions to produce excitations in ^{120,122,124},^{126}Pd residues identified through energy loss, TOF and magnetic rigidity using ZeroDegree spectrometer. Measured Eγ, Iγ, (particle)γ-coin using DALI2 array of 186 NaI(Tl) scintillation detectors. Particles were detected by $LaBr_3$(Ce) scintillation detectors.

^{126}Pd Levels

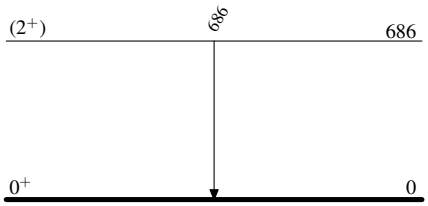
E(level)	J^π	Comments
0	0^+	
686 *17*	(2^+)	J^π: from Adopted Levels.

$\gamma(^{126}Pd)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π
686 *17*	686	(2^+)	0	0^+

^{9}Be(^{133}Sn,Xγ) 2013Wa28

Level Scheme



$^{126}_{46}Pd_{80}$