

$^9\text{Be}(^{134}\text{Sn},\text{X})$  2016Wa28

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

2016Wa28: secondary beam of  $^{134}\text{Sn}$  ions produced in  $\text{W}(^{238}\text{U},\text{F})$ ,  $E=345$  MeV/nucleon primary reaction and ions separated using BigRIPS fragment separator at RIBF-RIKEN facility. Measured reaction residues through identification by TOF,  $B\rho$ ,  $\Delta E$ , and total kinetic energy (TKE) using the ZeroDegree spectrometer,  $E_\gamma$ ,  $I_\gamma$ , (particle) $\gamma$ -coin using DALI2 array of NaI(Tl) detectors. Deduced first  $2^+$  level, configuration. Comparison with mean-field calculations.

 $^{132}\text{Cd}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>	Comments
0	$0^+$	
618 8	$(2^+)$	$J^\pi$ : from systematic trend of neighboring nuclides (2016Wa28). Proposed (2016Wa28) configuration=mixture of $\pi^{-2}\otimes\nu^2$ excitations around the robust $^{132}\text{Sn}$ core.

 $\gamma(^{132}\text{Cd})$ 

<u><math>E_\gamma</math></u>	<u><math>E_i(\text{level})</math></u>	<u><math>J_i^\pi</math></u>	<u><math>E_f</math></u>	<u><math>J_f^\pi</math></u>	Comments
618 8	618	$(2^+)$	0	$0^+$	$E_\gamma$ : uncertainty includes statistical and systematic.

 $^9\text{Be}(^{134}\text{Sn},\text{X})$  2016Wa28Level Scheme