

Coulomb excitation 2008De30

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Beam= ^{114}Pd , target= ^{93}Nb . Intermediate energy Coulomb excitation.

$^9\text{Be}(^{124}\text{Sn},\text{X})$ with a beam energy of 120 MeV/nucleon. Selected ^{114}Pd beam using A1900 fragment separator at NSCL. ^{114}Pd beam had energy of 69 MeV/nucleon. Measured lifetime using Recoil-distance Doppler Shift (RDDS) technique. Particle identification was made on event-by-event basis using time-of-flight method and energy loss signals using two CRDC detectors. Comparisons with IBM calculations.

 ^{114}Pd Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+		
332.5	2^+	82 ps 14	$T_{1/2}$: from RDDS method (2008De30). Note that this value is a factor of ≈ 2 smaller than the adopted value in ENSDF database.

 $\gamma(^{114}\text{Pd})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
332.5	332.5	2^+	0	0^+	$B(E2)(\text{W.u.})=50.9$ E_γ : from 'Adopted Levels, gammas' dataset for ^{114}Pd in ENSDF database.

Coulomb excitation 2008De30Level Scheme