

$^{113}\text{Cd}(^{86}\text{Kr},4n\gamma)$  2009Gr05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

[2009Gr05](#): E=382 MeV beam provided by University of Jyvaskyla. Measured lifetime of  $17/2^+$  yrast state by recoil-distance Doppler-shift method and recoil-decay tagging method. Gas-filled separator RITU was used to separate recoils and transport these to GREAT spectrometer. Charged particles detected using GREAT spectrometer including a MultiWire Proportional counter and two double-sided silicon strip detectors. The  $\gamma$  rays were detected in recoil-decay tagging mode using JUROGAM detector array with 43 Eurogam Compton-suppressed Ge detectors.

 $^{195}\text{Po}$  Levels

E(level) <sup>†</sup>	$J^\pi$	$T_{1/2}$	Comments
$\approx 230$	$13/2^+$	1.92 s 2	$\% \alpha \approx 90$ $T_{1/2}$ : from Adopted Levels.
549.3 5	$17/2^+$	30 ps 8	$T_{1/2}$ : from <a href="#">2009Gr05</a> , recoil-distance Doppler-shift method. Analysis was that of recoil-decay tagged $\gamma$ -ray spectra and differential decay curve method.

<sup>†</sup> From Adopted Levels.

 $\gamma(^{195}\text{Po})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
319	549.3	$17/2^+$	$\approx 230$	$13/2^+$	$B(E2)(\text{W.u.})=80\ 20$

 $^{113}\text{Cd}(^{86}\text{Kr},4n\gamma)$  2009Gr05Level Scheme