

$^{174}\text{Yb}(^{40}\text{Ar},4n\gamma)$ 1999Co13

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 121, 561 (2014)	31-Mar-2014

Target: ^{174}Yb . Projectile: ^{40}Ar , $E=183$ MeV. ^{210}Ra was separated using a gas-filled recoil separator. Measured delayed $\gamma\gamma$ coin.

Detectors: JUROSPHERE, an array of 25 Compton-suppressed germanium detectors. γ rays were observed, but their energies not reported. Excited energy Levels are presented in a Figure.

 ^{210}Ra Levels

E(level) [†]	J^π	$T_{1/2}$	Comments
0.0	0^+		
≈ 600	2^+		
≈ 1200	4^+		
≈ 1400	4^+		
≈ 2000	6^+		
≈ 2100	8^+	$2.24 \mu\text{s}$	$T_{1/2}$: Deduced by evaluator from $B(E2)\downarrow=2.4 \text{ e}^2\text{fm}^{-4}$ (1999Co13).

[†] Estimated by evaluator from Figure 2 (1999Co13).

 $\gamma(^{210}\text{Ra})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
≈ 100	≈ 2100	8^+	≈ 2000	6^+

 $^{174}\text{Yb}(^{40}\text{Ar},4n\gamma)$ 1999Co13Level Scheme