

${}^9\text{Be}({}^{37}\text{Ca},\text{X}\gamma)$ [2010Be01,2007DoZV](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh		NDS 113, 1 (2012)	31-Dec-2011

One-proton removal reaction.

[2010Be01](#): ${}^{37}\text{Ca}$ beam at 200 MeV/nucleon beam produced in fragmentation of ${}^{48}\text{Ca}$ beam. Prompt γ rays in ${}^{36}\text{K}$ observed from removal of a proton in the beam. Measured E_γ and lifetime by recoil-distance Doppler-shift method at GSI-RISING facility using 15 HPGe cluster detectors of Euroball.

[2007DoZV](#): ${}^{37}\text{Ca}$ beam At 195.7 MeV/nucleon, similar to [2010Be01](#).

 ${}^{36}\text{K}$ Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	2^+		
810 2	(3^+)	19 ps 4	$T_{1/2}$: from plunger method (2010Be01); other: 8 +5–4 ps (2007DoZV). 2010Be01 and 2007DoZV seem related but give discrepant $T_{1/2}$ value; the newer value was adopted by evaluator.
1113	1^+	7 ps +3–2	$T_{1/2}$: from 2007DoZV .
1914 5	(2^+)		

[†] From Adopted Levels, Gammas dataset (same values are cited by [2007DoZV](#)).

 $\gamma({}^{36}\text{K})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
810 2	810	(3^+)	0	2^+	E_γ : from 2007DoZV ; other: 814 (2010Be01).
1113	1113	1^+	0	2^+	E_γ : from 2007DoZV and 2010Be01 .
1914 5	1914	(2^+)	0	2^+	E_γ : from 2007DoZV .

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Level Scheme

