

$^9\text{Be}(^{238}\text{U},\text{X}\gamma)$ 2010Km01,2003GI05,2004GI04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

2010Km01: 238 GeV ^{238}U beam fragmentation by Be backed by Nb stripper foil; fragment separator; multiwire counters (for position determination); MUSIC ionization chamber (Z determination); 2 fast scintillators At middle and final focal planes of spectrometer (for tof data); ions slowed In plexiglass glued to Cu foil that served As perturbation-free stopper In vertical magnetic field (0.160 T Tesla); 8 HPGe detectors from RISING array At 45° , 75° , 105° and 135° measured delayed γ -rays from isomeric decay; measured isomer $T_{1/2}$, isomer g-factor using TDPAD.

2003GI05,2004GI04: projectile fragmentation of 750 MeV/nucleon ^{238}U by Be target; fragment separator (magnetic 0° spectrometer with two D stages); 2 scintillators for tof and position measurement; 2 multiwire detectors At focal plane; MUSIC fourfold ionization chamber; 2 VEGA segmented Clover Ge detectors; measured E_γ (unstated), fragment- γ -t, isomeric ratios; sensitive to isomers with $T_{1/2}$ between 100 ns and several ms.

 ^{192}Pb Levels

E(level) [†]	J^π	$T_{1/2}$	Comments
0.0			
854			
1356			
1860			E(level): misprinted As 1680 In 2010Km01 .
1921			
2304			
2323			
2520			
2581			
2625	(12 ⁺)	1.07 μs 6	g=-0.175 20 (2010Km01) J^π : from Adopted Levels. $T_{1/2}$: from exponential fit to sum of background-subtracted time spectra obtained by gating on 854 γ , 565 γ and 599 γ (2010Km01). Other: 1.5 μs + ∞ -8 from fragment- γ (t) (2003GI05,2004GI04). g-factor from TDPAD using sum of gates on 854 γ , 565 γ , 599 γ .

[†] From E_γ , except As noted.

 $\gamma(^{192}\text{Pb})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	Comments
(44)	2625	(12 ⁺)	2581	rounded value from Adopted Gammas.
(61)	2581		2520	rounded value from Adopted Gammas.
383	2304		1921	
463	2323		1860	
502	1356		854	
504	1860		1356	
565	1921		1356	
599	2520		1921	
854	854		0.0	

[†] From delayed γ spectrum associated with 12⁺ isomeric state decay (fig. 4b of [2010Km01](#)), except As noted; uncertainties unstated by authors.

$^9\text{Be}(^{238}\text{U}, \text{X}, \gamma)$ 2010Km01,2003G105,2004G104

Legend

Level Scheme

-----> γ Decay (Uncertain)