

$^{209}\text{Bi}(\mu^-, X\gamma)$ 2007Me09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

2007Me09: The μ^- beam obtained from decap of π^- beam at 90 MeV/c. Measured γ -ray yields using two HPGe detectors at TRIUMF.

 ^{205}Pb Levels

E(level) [†]	J^π [‡]
0	5/2 ⁻
2.30 7	1/2 ⁻
262.80 5	3/2 ⁻
576.15 9	3/2 ⁻
703.44 3	7/2 ⁻
761.40 13	5/2 ⁻
803.40 12	(1/2,3/2) ⁻
987.66 5	9/2 ⁻
1043.75 5	7/2 ⁻

[†] From a least-squares fit to E_γ .

[‡] From Adopted Levels.

 $\gamma(^{205}\text{Pb})$

E_γ [†]	I_γ [‡]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
260.50 5	1.2 4	262.80	3/2 ⁻	2.30	1/2 ⁻	
262.80 5	<0.4	262.80	3/2 ⁻	0	5/2 ⁻	
540.6 1	0.8 4	803.40	(1/2,3/2) ⁻	262.80	3/2 ⁻	
573.85 5	<0.4	576.15	3/2 ⁻	2.30	1/2 ⁻	
703.44 3	0.4 4	703.44	7/2 ⁻	0	5/2 ⁻	
759.1 1	0.4 3	761.40	5/2 ⁻	2.30	1/2 ⁻	
987.66 5	1.6 4	987.66	9/2 ⁻	0	5/2 ⁻	
1043.75 5	0.8 3	1043.75	7/2 ⁻	0	5/2 ⁻	

E_γ : Measured E_γ in 2007Me09 is somewhat different, indicating that it may be associated with another decay.

[†] From adopted gammas.




[‡] Percent γ -ray yield in 2007Me09.

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Level Scheme

Intensities: Percent γ -ray yield

Legend

-  $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
-  $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
-  $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

