^{161}Eu β^- decay 1986Ma12

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 112,2497 (2011)	1-Jun-2011

Parent: ^{161}Eu: E=0; $T_{1/2}$=26 s *3*; Q(β^-)=3705 *60*; %β^- decay=100.0

^{161}Eu-$T_{1/2}$: from ^{161}Eu Adopted Levels.

^{161}Eu-Q(β^-): From the ^{161}Eu adopted values.

Additional information 1.

^{161}Eu produced by thermal-neutron fission of ^{235}U with isotope separation. γ singles, $\gamma\gamma$ coincidences, and x-γ coincidences measured with Ge detectors. Parent half-life from multiscaled γ singles.

^{161}Gd Levels

E(level)	J^π†	$T_{1/2}$	Comments
0.0	$5/2^-$	3.66 min *5*	$T_{1/2}$: from ^{161}Gd Adopted Levels.
71.9 *2*	$7/2^-$		
163.7 *2*	$9/2^-$		
314.3 *3*	$3/2^-$		

† From ^{161}Gd Adopted Levels.

$\gamma(^{161}Gd)$

Since there are no I_γ values, the α values have not been included in the data fields. α(71.9)=5.3-8.9 for M1,E2, α(91.9)=2.6 – 3.5 for M1,E2, and α(163)=0.44 for E2.

E_γ	E_i(level)	J_i^π	E_f	J_f^π
71.9 *2*	71.9	$7/2^-$	0.0	$5/2^-$
91.9 *2*	163.7	$9/2^-$	71.9	$7/2^-$
163.7 *2*	163.7	$9/2^-$	0.0	$5/2^-$
[x]293.9 *3*				
314.3 *3*	314.3	$3/2^-$	0.0	$5/2^-$

[x] γ ray not placed in level scheme.

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Decay Scheme