^{144}Dy ε decay 1986Re11

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 93, 599 (2001)	1-Dec-2000

Parent: ^{144}Dy: E=0.0; $J^\pi=0^+$; $T_{1/2}$=9.1 s *4*; Q(ε)=6092 *SY*; %ε+%$β^+$ decay=100.0
Source: ^{35}Cl on ^{112}Sn, ms. Measured (K x ray)G.

^{144}Tb Levels

E(level)‡	J^π†	$T_{1/2}$
0.0	1^+	≈1 s
196.5	(1^+)	
298.6	(1^+)	
475.5	(1^+)	

† From Adopted Levels.
‡ As given by authors.

ε,$β^+$ radiations

E(decay)	E(level)	Log *ft*‡	I(ε+$β^+$)†#
(5616 *SY*)	475.5	5.5	5
(5793 *SY*)	298.6	5.2	10
(5895 *SY*)	196.5	5.2	11
(6092 *SY*)	0.0	4.5	≈74

† g.s. feeding deduced from relative Iγ in ^{144}Dy, ^{144}Tb, ^{144}Tb (4.25 s).
‡ Calculated by the authors. Authors do not give Q value.
# Absolute intensity per 100 decays.

γ(^{144}Tb)

Iγ normalization: the g.s. feeding has been estimated by 1986Re11 from the apparent half-life of 743γ (>4.25 s) in ^{144}Tb decay, which is simultaneously produced from decay of ^{144}Tb (4.25 s) and ^{144}Dy.

E_γ	I_γ†	E_i(level)	J_i^π	E_f	J_f^π
196.5 *3*	100 *10*	196.5	(1^+)	0.0	1^+
298.6 *3*	91 *9*	298.6	(1^+)	0.0	1^+
x321.5 *3*	20 *2*				
475.5 *3*	45 *5*	475.5	(1^+)	0.0	1^+

† For absolute intensity per 100 decays, multiply by 0.11.
x γ ray not placed in level scheme.

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Decay Scheme

Intensities: I_γ per 100 parent decays