^{79}As IT decay (1.21 μs) 1998Ho15,1998Gr14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

Parent: ^{79}As: E=772.81 *6*; J^π=(9/2)$^+$; $T_{1/2}$=1.21 μs *1*; %IT decay=100.0

1998Ho15: ^{198}Pt(^{76}Ge,X) E=550, 635 MeV; ^{198}Pt(^{74}Ge,X) E=625 MeV. Measured Eγ, Iγ, γ(t). (fragment)γ coin. Deduced $T_{1/2}$ of an isomer.

1998Gr14: Ni(^{86}Kr,X) E=60.3 MeV/nucleon. Measured Eγ, γ(t), (fragment) γ coin. Deduced $T_{1/2}$ of an isomer.

2013RuZX: ^{233},^{235}U,^{241}Pu,^{241}Am(n,F),E=thermal: measured Eγ, Iγ, delayed γ, isomer half-life by γ(t) or (ions)(t) using fragment mass separator at Lohengrin-ILL-Grenoble reactor facility.

^{79}As Levels

E(level)†	J^π†	$T_{1/2}$	Comments
0	3/2$^-$		
231	(5/2)$^-$		
772.81 *6*	(9/2)$^+$	1.21 μs *1*	%IT=100 $T_{1/2}$: from weighted average of 1.21 μs *1* (1988Gr14) and 1.18 μs *4* (2013RuZX). Other: 0.87 μs *6* (1998Ho15) is in disagreement.

† From Adopted Levels.

γ(^{79}As)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
231	231	(5/2)$^-$	0	3/2$^-$		
542	772.81	(9/2)$^+$	231	(5/2)$^-$	[M2]	Iγ(542γ)/Iγ(231γ)=0.98 *10* (1998Ho15).

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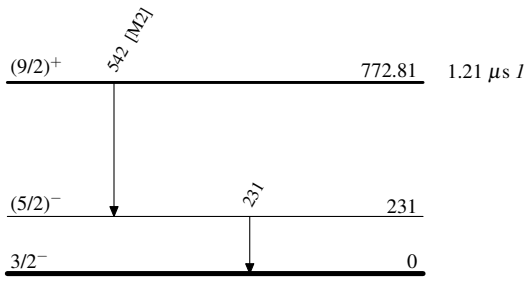
Decay Scheme

%IT=100.0



$^{79}_{33}As_{46}$