^{189}Os(d,d′) 1975Mo29

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Balraj Singh	NDS 142, 1 (2017)	15-Apr-2017

1975Mo29: E(d)=12.1 MeV, measured deuteron spectra, DWBA analysis.

^{189}Os Levels

The B(E2) values here are derived from the relation dσ/dΩ(θ=90°)=1003[B(E2)].

E(level)†	$T_{1/2}$‡	L	dσ/dΩ#	Comments
0[a]			86000	
70[a] *1*	1.8 ns *2*	2	974 *64*	B(E2)↑=0.97 *7*
95[b] *1*	0.13 ns *5*	2	168 *12*	B(E2)↑=0.17 *2*
219[a] *2*	>0.3 ns	2	800 *59*	B(E2)↑<0.8 B(E2) for Eγ(217+219)=0.8.
233[b] *1*	≈0.1 ns	2	93 *8*	B(E2)↑=0.093 *8*
346[@] *3*		&	≈25	
365[@b] *2*		2	≈23	B(E2)↑≈0.023
424 *2*		2	17 *2*	
502 *3*		2	72 *6*	
529 *1*		2	38 *4*	
554 *1*		2	49 *6*	
594[@]		&	≈25	
599[@]		(2)	≈6	B(E2)↑≈0.006
620[b] *4*		&	<1	
671 *1*		2	10 *2*	
733 *1*		2	79 *6*	
793[@] *2*		&	1.2 *2*	
815 *1*		2	30 *3*	

† From average taken over all angles.
‡ From B(E2) values, with γ branching ratios and mixing ratios taken from the Adopted Levels, Gammas dataset.
# dσ/dΩ(90°) in μb/sr from 1975Mo29. Cross section data at 125° and 150° are also given by the authors.
@ Unresolved doublet.
& L>2.
a Band(A): ν3/2[512] band.
b Band(B): ν1/2[510] band.

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Band(B): *ν*1/2[510] band

620

365

Band(A): *ν*3/2[512] band

233

219

95

70

0

$^{189}_{76}Os_{113}$