

$^{92}\text{Mo}(^{11}\text{B},\text{p}2\text{n}\gamma)$ 2009Ra28

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 172, 1 (2021)	31-Jan-2021

2009Ra28: E=43 MeV from Cologne FM tandem accelerator. Measured lifetimes of yrast states by recoil-distance Doppler shift using plunger method. Five HPGe detectors and one Euroball cluster detector were used. Comparisons of B(E2) values with shell-model calculations.

 ^{100}Pd Levels

E(level)	J^π [†]	$T_{1/2}$ [‡]
0 [#]	0 ⁺	
665 [#]	2 ⁺	6.24 ps 28
1416 [#]	4 ⁺	2.50 ps 21
2054		
2189 [#]	6 ⁺	2.56 ps 35
2505	5 ⁻	13.97 ps 35
2988 [#]	8 ⁺	3.47 ps 28
3869 [#]	10 ⁺	1.94 ps 42
4145	10 ⁽⁺⁾	
4761 [#]	12 ⁺	3.60 ps 28

[†] From the Adopted Levels.

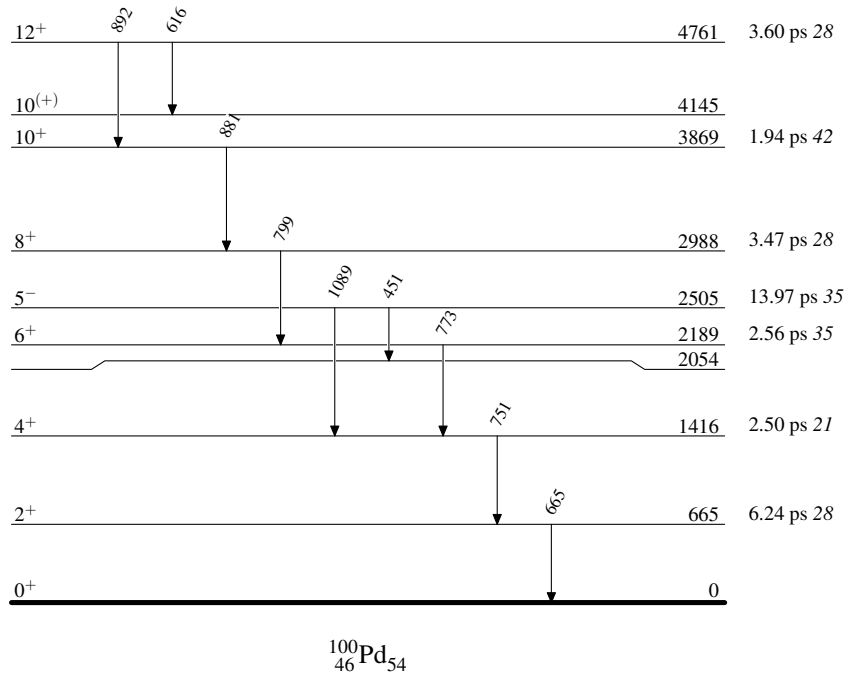
[‡] From recoil-distance Doppler shift (RDDS) using Cologne Plunger (2009Ra28). Uncertainty includes statistical and 2% systematic.

[#] Band(A): Yrast band.

 $\gamma(^{100}\text{Pd})$

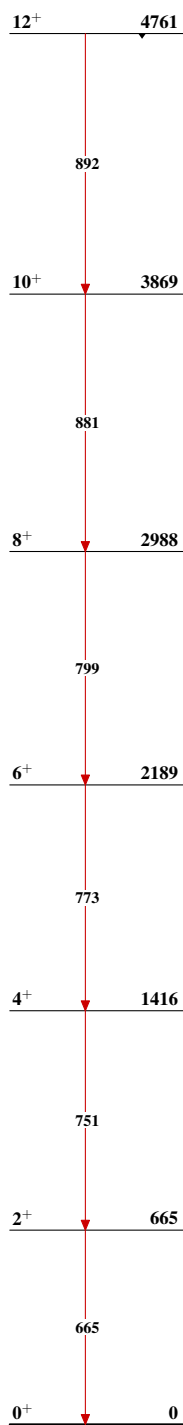
E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
451	2505	5 ⁻	2054	
616	4761	12 ⁺	4145	10 ⁽⁺⁾
665	665	2 ⁺	0	0 ⁺
751	1416	4 ⁺	665	2 ⁺
773	2189	6 ⁺	1416	4 ⁺
799	2988	8 ⁺	2189	6 ⁺
881	3869	10 ⁺	2988	8 ⁺
892	4761	12 ⁺	3869	10 ⁺
1089	2505	5 ⁻	1416	4 ⁺

[†] Rounded values from the Adopted Gammas.

$^{92}\text{Mo}(^{11}\text{B},\text{p}2\text{n}\gamma)$ 2009Ra28Level Scheme

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Band(A): Yrast band

 $^{100}_{46}\text{Pd}_{54}$