

$^{100}\text{Mo}(^{136}\text{Xe}, ^{135}\text{Xe})$  2005Re11

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

2005Re11:  $E(^{136}\text{Xe})=700$  MeV. Measured  $\gamma$ , GAMMASPHERE array with 102 Compton suppressed hyperpure germanium detectors. The binary fragments were detected using the position-sensitive gas-filled detector, chico.

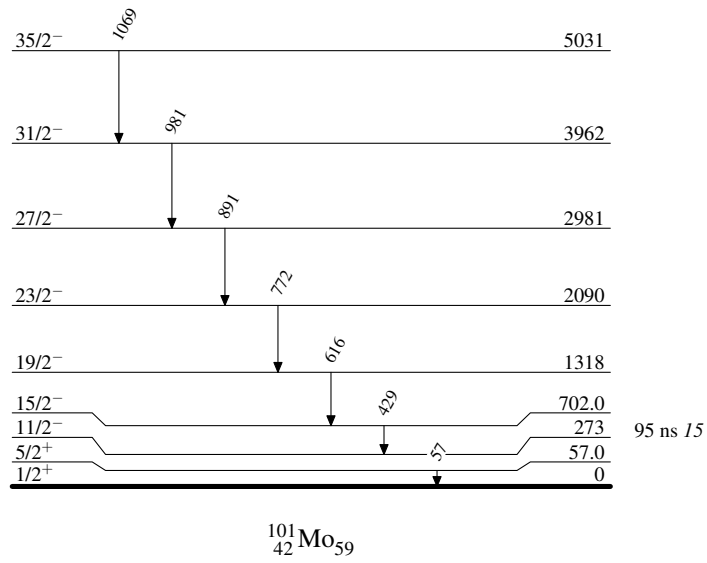
 $^{101}\text{Mo}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0	$1/2^+$		
57.0 10	$5/2^+$		
273 <sup>†</sup>	$11/2^-$	95 ns 15	<a href="#">Additional information 1.</a>
702.0 <sup>†</sup> 20	$15/2^-$		
1318 <sup>†</sup> 3	$19/2^-$		
2090 <sup>†</sup> 4	$23/2^-$		
2981 <sup>†</sup> 4	$27/2^-$		
3962 <sup>†</sup> 5	$31/2^-$		
5031 <sup>†</sup> 5	$35/2^-$		

<sup>†</sup> Band(A): Decoupled neutron h11/2 band.

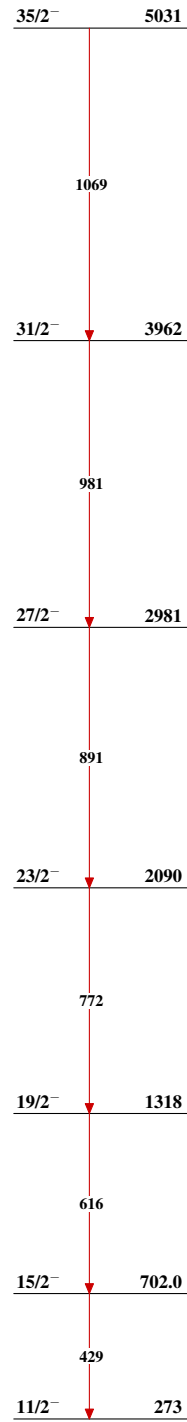
 $\gamma(^{101}\text{Mo})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
57 1	57.0	$5/2^+$	0	$1/2^+$
429 2	702.0	$15/2^-$	273	$11/2^-$
616 2	1318	$19/2^-$	702.0	$15/2^-$
772 2	2090	$23/2^-$	1318	$19/2^-$
891 2	2981	$27/2^-$	2090	$23/2^-$
981 2	3962	$31/2^-$	2981	$27/2^-$
1069 2	5031	$35/2^-$	3962	$31/2^-$

$^{100}\text{Mo}(^{136}\text{Xe}, ^{135}\text{Xe})$  **2005Re11**Level Scheme

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Band(A): Decoupled  
neutron h11/2 band

 $^{101}_{42}\text{Mo}_{59}$