

$^{27}\text{Al}(^{18}\text{O},2n\gamma)$  2008Fe02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen <sup>#</sup>		NDS 126, 1 (2015)	31-Mar-2015

2008Fe02: E=75 MeV beam provided by Tandem accelerator at IPN Orsay. Measured  $\gamma$ -rays with one clover and three single Ge detectors with BGO Compton suppression. Lifetime of isomer measured by  $\gamma(t)$  as a side measurement (for confirmation purposes of main measurements for  $^{139}\text{Nd}$  and  $^{140}\text{Nd}$ ) as the  $^{18}\text{O}$  beam was hitting the target frame made of aluminum.

 $^{43}\text{Sc}$  Levels

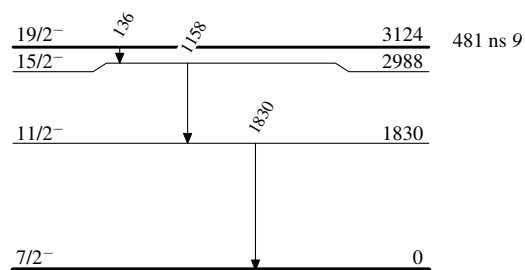
E(level)	$J^{\pi\dagger}$	$T_{1/2}$
0	$7/2^-$	
1830	$11/2^-$	
2988	$15/2^-$	
3124	$19/2^-$	481 <sup>‡</sup> ns 9

<sup>†</sup> From Adopted Levels.

<sup>‡</sup> From  $\gamma(t)$  (2008Fe02).

 $\gamma(^{43}\text{Sc})$ 

$E_{\gamma}$	$E_i(\text{level})$	$J_i^{\pi}$	$E_f$	$J_f^{\pi}$
136	3124	$19/2^-$	2988	$15/2^-$
1158	2988	$15/2^-$	1830	$11/2^-$
1830	1830	$11/2^-$	0	$7/2^-$

 $^{27}\text{Al}(^{18}\text{O},2n\gamma)$  2008Fe02Level Scheme $^{43}_{21}\text{Sc}_{22}$