^{9}Be(^{46}Ar,^{6}nγ) 2005Id03

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows[a]	NDS 109, 1879 (2008)	14-Jul-2008

^{46}Ar beam produced by fragmentation of E=63 MeV/nucleon primary beam of ^{48}Ca on a ^{9}Be target. isotope separation following fragmentation achieved with an aluminum energy degrader At momentum-dispersive focal plane and reduced secondary beam energy to≈30 MeV/nucleon. Particle identification of secondary beam performed by tof, (E-ΔE method). purity of ^{46}Ar beam=90%.

E=2-7 MeV/nucleon. measured Eγ, Iγ, γγ with the GRAPE system, consisting of 17 Ge detectors. two PPAC counters were used for Doppler correction.

^{49}Ti Levels

E(level)†	Jπ‡
0	$7/2^-$
1543.0 *10*	$11/2^-$
2506.0 *15*	$15/2^-$
3291.0 *18*	$(17/2)^-$

† From least-squares fit to Eγ's, assuming ΔE(γ)=1 keV (evaluator).

‡ From the Adopted Levels.

γ(^{49}Ti)

E_γ	E_i(level)	J^π_i	E_f	J^π_f
785	3291.0	$(17/2)^-$	2506.0	$15/2^-$
963	2506.0	$15/2^-$	1543.0	$11/2^-$
1543	1543.0	$11/2^-$	0	$7/2^-$

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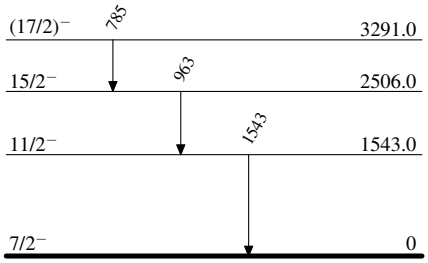
Level Scheme



$^{49}_{22}Ti_{27}$