46 Ti(58 Ni,3n γ) 2007Se04

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	Balraj Singh	ENSDF	15-Oct-2007					

E=192 MeV beam produced at Argonne Linac accelerator. Fragments were separated using a fragment mass analyzer (FMA), and implanted in a double sided silicon strip detector. Decays were observed in a large area Si detector and four single sided Si strip detectors. The γ rays were detected using GAMMASPHERE array with 99 Compton-suppressed HPGe detectors. The γ rays were identified using the recoil-decay tagging method following the β -delayed proton decay of ¹⁰¹Sn. Comparisons with shell-model calculations.

¹⁰¹Sn Levels

E(level)	J^{π}	T _{1/2}	Comments
0	(5/2+)	1.3 s 5	$T_{1/2}$: from recoil-decay tagging method (2007Se04).
171.7 6	$(7/2^+)$		d _{5/2} orbital. g _{7/2} orbital.

[†] From shell-model interpretation.

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

Eγ	E_i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
171.7 6	171.7	$(7/2^+)$	0	$(5/2^+)$

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Level Scheme

