^{28}Si(^{6}Li,pnγ) 1998Ka31

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

1998Ka31: E=8.0 and 12.0 MeV ^{6}Li beams were produced from the 5 MV tandem accelerator EGP-10-II at Helsinki. Target was prepared by implanting 100-keV ^{28}Si into a tantalum sheet. γ rays were detected using Ge detector with BGO veto. Measured Eγ, Doppler-shift attenuation. Deduced $T_{1/2}$ from Monte-Carlo lineshape analysis.

^{32}S Levels

E(level)†	$T_{1/2}$†	Comments
0		
2230		
3778	0.89 ps *9*	Additional information 1.
4282	40 fs *5*	Additional information 2.
5413	167 fs *24*	Additional information 3.
6411	24.3 fs *35*	Additional information 4.

† From 1998Ka31. $T_{1/2}$ is from DSAM.

γ(^{32}S)

E_γ†	E_i(level)	E_f
1547	3778	2230
3182	5413	2230
4179	6411	2230
4282	4282	0

† Rounded values from Adopted Gammas. No Eγ values from the work of 1998Ka31 are reported by the authors and the evaluator has listed here the strongest transition from each level, which is likely used in the lifetime measurement using DSAM in 1998Ka31.

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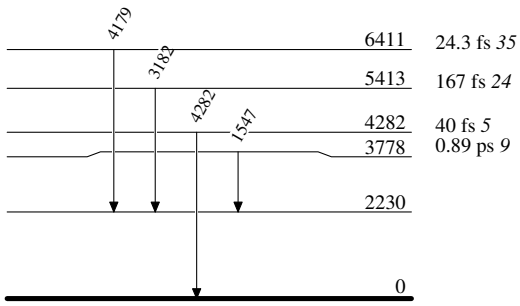
Level Scheme



$^{32}_{16}S_{16}$