^{9}Be(^{36}S,Xγ),(^{40}Ar,xγ) 1996Ro02

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

1996Ro02: E=75 MeV/nucleon ^{36}S beam and E=61 MeV/nucleon ^{40}Ar beams were produced from the coupled cyclotron at GANIL. Targets were 185 mg/cm^2 ^{9}Be. Reaction products were momentum-analyzed with the LISE spectrometer. γ rays were detected with a large-volume Ge detector. Measured Eγ, (fragment)γ-coin, γ(t). Deduced levels, isomer $T_{1/2}$.

^{32}Al Levels

E(level)†	J$^\pi$‡	$T_{1/2}$	Comments
0	1$^+$		
734.1 *3*	(2$^+$)		
955.7 *4*	(4$^+$)	200 ns *20*	$T_{1/2}$: from 222γ(t) in 1996Ro02.

† From Eγ data.
‡ From Adopted Levels.

γ(^{32}Al)

E$_\gamma$†	I$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
221.6 *3*	3.24 *18*	955.7	(4$^+$)	734.1	(2$^+$)
734.1 *3*	2.87 *22*	734.1	(2$^+$)	0	1$^+$

† From 1996Ro02.

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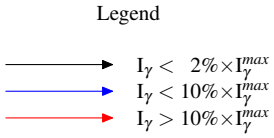
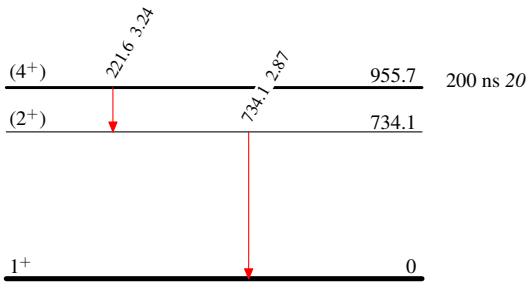
Level Scheme

Intensities: Relative I$_\gamma$





$^{32}_{13}Al_{19}$