4 He(32 Al, 32 Al' γ) 2006FuZX

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

2006FuZX: E=40 MeV ³²Al secondary beam was produced by fragmentation of 63 MeV/nucleon ⁴⁰Ar primary beam on 1-mm thick carbon and beryllium target and separated by the RIKEN Projectile-fragment Separator (RIPS). The reaction target is liquid helium of about 150 mg/cm² thick. Scattered particles were detected and identified by a parallel-plate avalanche counter (PPAC) and a silicon detector telescope. γ rays were detected with the GRAPE Ge detector array. Measured E γ , particle- γ -coin.

³²Al Levels

E(level)[†]

[†] From $E\gamma$ data.

$\gamma(^{32}\text{Al})$

E_{γ}^{\dagger}	E_i (level)	E_f
219.4 [‡] 5	954.9	735.5
219.4 [‡] 5	1174.4	954.9
^x 280.4 8		
^x 530.2 11		
566	1741	1174.4
735.5 6	735.5	0
786	1741	954.9

[†] From 2006FuZX. Placements are based on adopted level scheme in Adopted Gammas, Levels.

[‡] Multiply placed with undivided intensity.

 $x \gamma$ ray not placed in level scheme.

${}^{4}\text{He}({}^{32}\text{Al},{}^{32}\text{Al}'\gamma) \qquad 2006\text{FuZX}$

Level Scheme



 $^{32}_{13}\text{Al}_{19}$