

$^{27}\text{Al}(p,\alpha)$ 1962Qu01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty		NDS 186, 2 (2022)	31-Mar-2022

$J^\pi(^{25}\text{Al})=5/2^+$.

Other reference: [1982HoZU](#).

[1962Qu01](#): $^{27}\text{Al}(p,\alpha)$ E=11 MeV; target thickness about $90 \mu\text{g}/\text{cm}^2$; Measured E_α and pulse height at 40° , 90° , and 135° with surface barrier detector; deduce excited levels with 20 keV systematic uncertainty. FWHM=30 keV at 6 MeV.

 ^{24}Mg Levels

E(level)	Comments
0	
1369 20	E(level): Central value (rounded to keV) from Adopted Levels.
4122 20	
4232 20	
5251 20	
6010 20	
6430 20	
7344 20	
7594 20	E(level): Probably a doublet (evaluators assume).
7797 20	
8116 20	
8359 20	
8440 20	