

$^{44}\text{Ca}(p, ^3\text{He})$  1973Du02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen <sup>#</sup> and Balraj Singh		NDS 135, 1 (2016)	31-May-2016

1973Du02: E=56 MeV proton beam produced by the Grenoble variable energy cyclotron with intensities of 100 to 600 nA. Targets of self-supported calcium metal foils of about 1 mg/cm<sup>3</sup>. Reaction products were detected in a  $\Delta E$ -E silicon counter telescope, FWHM  $\approx$  150 keV. Measured  $\sigma(\theta)$ . Deduced levels.

 $^{42}\text{K}$  Levels

T: based on observation of large intensity peak, and probable IAS of  $^{42}\text{Ar}$  g.s. No angular distribution data are available from 1973Du02.

E(level) <sup>†</sup>	J <sup>π</sup>	Comments
0 <sup>‡</sup>		
260 <sup>‡</sup>		
700 <sup>‡</sup>		
1200 <sup>‡</sup>		
2400 <sup>‡</sup>		
6450	(0 <sup>+</sup> ) <sup>#</sup> T=3	

<sup>†</sup> Read from figure 5 of 1973Du02. Except for the analog state at 6450, all other peak structures are unresolved multiplets.

<sup>‡</sup> T=2 proposed by 1973Du02 for group of states between ground state and 2400 level.

<sup>#</sup> based on observation of large intensity peak, and probable IAS of  $^{42}\text{Ar}$  g.s. No angular distribution data are available from 1973Du02.