

$^{40}\text{Ca}(t,p\gamma)$  1977LiZI

Type	Author	History	Citation	Literature Cutoff Date
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1977LiZI: E=10 MeV. Measured  $\gamma(\theta)$  in coincidence with protons at  $0^\circ$ .

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

E(level)	$J^\pi$
0	
1520	
2420	
3890	
5850	
6020	
6520	
6700	
6820 <sup>†</sup>	(0) <sup>‡</sup>

<sup>†</sup> Strongly excited state.

<sup>‡</sup> From isotropic  $\gamma(\theta)$ .

 $\gamma(^{42}\text{Ca})$ 

$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$E_f$	$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$
900	2420	1520	2930 <sup>‡</sup>	6820	(0)	3890	4400 <sup>‡</sup>	6820	(0)	2420
1520	1520	0	3430	5850		2420	4500	6020		1520
1960	5850	3890	3600	6020		2420	5000	6520		1520
2130	6020	3890	3890	3890		0	5180	6700		1520
2420	2420	0	4100	6520		2420	5300 <sup>‡</sup>	6820	(0)	1520
2630	6520	3890	4280	6700		2420				
2810	6700	3890	4330	5850		1520				

<sup>†</sup> From level-energy differences.

<sup>‡</sup> It is assumed that the 6820 decays in the same manner as other levels reported by 1977LiZI.

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## Level Scheme

