^{42}Ca(γ,γ) 1966Me11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen[#] and Balraj Singh	NDS 135, 1 (2016)	31-May-2016

1966Me11: E=1520 keV γ-rays from ^{42}K radioactive source. Targets of natural and enriched $CaCO_3$ (94.42% in ^{42}Ca). Scattered γ-rays were detected with a 3 by 3 in. NaI(Tl) detector. Measured cross section for resonant scattering. Deduced $T_{1/2}$ from measured resonance width for the 1.52 MeV level.
Other: 1972KaXR.

^{42}Ca Levels

E(level)	J^{π}[†]	$T_{1/2}$	Comments
0	0^+		
1520	2^+	0.97 ps *22*	$T_{1/2}$: from Γ=0.00048 eV *11* (1966Me11). Other: 0.520 ps *35* (1972KaXR).

[†] From Adopted Levels.

$\gamma(^{42}Ca)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
1520	1520	2^+	0	0^+	B(E2)↓=0.0074 *17*

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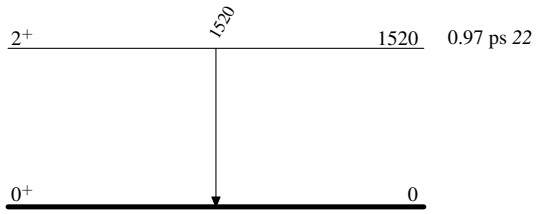
Level Scheme



$^{42}_{20}Ca_{22}$