⁴²Ca(¹⁶O,¹⁴C) **1976Ei02**

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1976Ei02: E=56 MeV ¹⁶O beam produced at Argonne National Laboratory. Targets of 150-200 μ g/cm² enriched ⁴²Ca. A ΔE-E time-of-flight telescope. Measured $\sigma(\theta)$. Deduced levels, J^{π} , L, spectroscopic factors from DWBA analysis.

⁴⁴Ti Levels

E(level)	${ m J}^{\pi}$	L	S [†]	Comments
0 1080 50 2500 50 3360 50 3980 50	0 ⁺ 2 ⁺ 2 ⁺ &4 ⁺ 4 ⁺	0 2 2+4 4 4+6	1 0.39 5	E(level): doublet, fitted with L=2,4.

[†] Relative to 1 for ground state (1976Ei02).