

³⁹K(n,d) [1968Mi02](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

$J^{\pi}(^{39}\text{K g.s.})=3/2^{+}$.
[1968Mi02](#): E=14.4 MeV neutrons were produced by the $^3\text{H}(\text{d},\text{n})$ reaction with the deuteron beam provided by the Cockcroft-Walton 200-keV accelerator at the Institute Ruder Boskovic. Target was potassium oxalate (3.32 mg/cm² thick) on a gold backing. Reaction products were detected with a counter telescope of three gas proportional counters and a CsI(Tl) scintillation counter. Measured $\sigma(\text{E}(\text{d}),\theta)$. Deduced levels, L-transfers, spectroscopic factors from DWBA analysis.

³⁸Ar Levels

<u>E(level)</u>	<u>L</u>	<u>S</u>
0	0	0.9
2160	2	3.0