

$^{32}\text{S}({}^6\text{Li},\text{d})$     **1974Li02,1994Il01,1998Ar01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh		NDS 113, 1 (2012)	31-Dec-2011

1974Li02: E=32 MeV, measured E(d), resolution 60 keV.

1994Il01: E=32 MeV, measured  $\sigma(E)$ .

1998Ar01: E=22, 38 MeV,  $^{32}\text{S}({}^6\text{Li},\text{d})^{36}\text{Ar}^\alpha$  and  $^{36}\text{Ar}^\alpha$   $\alpha$  decay to  $^{32}\text{S}$ . Studied d- $\alpha$  angular correlations.

 $^{36}\text{Ar}$  Levels

E(level) <sup>†</sup>	E(level) <sup>†</sup>	E(level) <sup>†</sup>	J $^\pi$	L	E(level) <sup>†</sup>	J $^\pi$	L
0	5200 <sup>‡</sup>	8500 20			15400&	6 <sup>+</sup> @	6@
1970	5840#	8680 20			16800&	7 <sup>-</sup> @	7@
4180	5860#	8910 20			19500&	8 <sup>+</sup> @	8@
4330	6140	9240 20			25300&	10 <sup>+</sup> @	10@
4950	6840	10070 20					
5170 <sup>‡</sup>	8280 20	11000&	5 <sup>-</sup> @	5@			

<sup>†</sup> From 1974Li02 for levels below 6840 inclusively, from 1994Il01 for levels above this level and up 10070 inclusively, and from 1998Ar01 for levels above 10070.

<sup>‡</sup> Levels 5170 and 5200 are unresolved.

# Levels 5840 and 5860 are unresolved.

@ From 1998Ar01 from d- $\alpha$  angular correlations.

& Band(A): rotational band without parity splitting based on J(J+1) rule (1998Ar01).

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Band(A): Rotational band  
without parity splitting  
based on  $J(J+1)$  rule  
(1998Ar01)

$10^+$                   25300

$8^+$                   19500

$7^-$                   16800

$6^+$                   15400

$5^-$                   11000