^{34}S(e,e′)   **1985Wo06,1994Pe08**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, Balraj Singh	NDS 113, 1563 (2012)	28-May-2012

1985Wo06: ^{34}S(e,e′) E=120, 240, 320 MeV. Used enriched target and measured $\sigma(\theta,E(e'))$, E2 strengths for two groups.

1994Pe08: ^{34}S(e,e′) E=28-64 MeV. Used 95%-enriched ^{34}S, CaS target and measured $\sigma(\theta,E(e'))$, M1 and M2 strengths for 22 groups.

^{34}S Levels

All data lower than 3304 level inclusively are from 1985Wo06; above this level all data are from 1994Pe08.

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	0^+		
2127.564 *13*	2^+	337 fs *12*	B(E2)↑=0.01928 *66* E(level),J^{π}: From Adopted Levels. $T_{1/2}$: from B(E2)↑.
3304.212 *13*	2^+	150 fs *17*	B(E2)↑=0.00256 *29* E(level),J^{π}: from Adopted Levels. $T_{1/2}$: from B(E2)↑.
9480 *10*	1^+		B(M1)↑=0.58 *4*
9870 *10*	1^+		B(M1)↑=0.25 *7*
10000 *10*	1^+		B(M1)↑=0.19 *4*
10180 *10*	1^+		B(M1)↑=0.66 *12*
10430 *10*	1^+		B(M1)↑=0.21 *4*
10660 *10*	$1^+,(2^-)$		B(M1)↑=0.16 *5*
10800 *10*	1^+		B(M1)↑=0.26 *9*
11020 *10*	1^+		B(M1)↑=0.11 *6*
11350 *10*	1^+		B(M1)↑=0.20 *4*
11500 *10*	1^+		B(M1)↑=0.23 *4*
12120 *10*	1^+		B(M1)↑=0.25 *12*
12180 *10*	2^-		B(M2)↑=46 *5*
12460 *10*	$1^+,(2^-)$		B(M1)↑=0.16 *5*
12660 *10*	1^+		B(M1)↑=0.39 *11*
12930 *10*	$2^-,(1^+)$		B(M2)↑=16 *5*
13590 *10*	2^-		B(M2)↑=31 *22*
13790 *10*	2^-		B(M2)↑=18 *5*
13990 *10*	1^+		B(M1)↑=0.13 *10*
14200 *10*	$1^+,(2^-)$		B(M1)↑=0.12 *5*
14320 *10*	$2^-,(1^+)$		B(M2)↑=32 *6*
14430 *10*	$1^+,(2^-)$		B(M1)↑=0.27 *5*
14800 *10*	2^-		B(M2)↑=90 *7*

$\gamma(^{34}$S)

E_i(level)	J_i^{π}	E_{γ}	I_{γ}	E_f	J_f^{π}	Mult.	Comments
2127.564	2^+	2127.499 *20*	100	0.0	0^+	E2	E_{γ},I_{γ},Mult.: from Adopted Gammas.
3304.212	2^+	1176.650 *20*	100.0 *9*	2127.564	2^+		E_{γ},I_{γ}: from Adopted Gammas.
		3304.031 *20*	87.2 *9*	0.0	0^+	E2	E_{γ},I_{γ},Mult.: from Adopted Gammas.

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Level Scheme

Intensities: Relative photon branching from each level