

$^{28}\text{Si}(^{34}\text{S}, ^{34}\text{S}')$ 1977Sc36

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

1977Sc36: 28, 29, $^{30}\text{SiS}, ^{34}\text{S}'$ E=49-52.9 MeV (inverse kinematics). Used Ge(Li) and measured $\sigma(E\gamma)$, DSAM, Coulomb excitations.

 ^{34}S Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
2127.564 13	2^+	320 fs 18	B(E2) \uparrow =0.0203 13 E(level), J^π : from Adopted Levels. $T_{1/2}$: mean lifetime τ in fs, from DSAM: 465 50; from B(E2) \uparrow (extracted by evaluators with data shown here): 461 30. Weighted average: 462 26.

 $\gamma(^{34}\text{S})$

$E_i(\text{level})$	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	$E_\gamma, I_\gamma, \text{Mult.}$: from Adopted Gammas.

 $^{28}\text{Si}(^{34}\text{S}, ^{34}\text{S}')$ 1977Sc36Level Scheme

Intensities: Relative photon branching from each level

