

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 158, 1 (2019)	16-May-2019

S(n)=14140 CA; S(p)=910 SY; Q(α)=-1940 SY [2017Wa10,2019Mo01](#)

S(n) from [2019Mo01](#). S(p) and Q(α) from [2017Wa10](#).

Estimated uncertainties ([2017Wa10](#)): 640 for S(p), 570 for Q(α).

S(2p)=200 420, Q(ϵ p)=14700 400 (syst,[2017Wa10](#)).

[1991WiZZ](#): ^{73}Sr produced and identified in $^{58}\text{Ni}(^{78}\text{Kr},\text{X})$ reaction at E=65 MeV/nucleon, followed by fragment, mass and charge analysis.

[1993Ba61](#): ^{73}Sr produced in $^{40}\text{Ca}(^{36}\text{Ar},3\text{n})$ reaction at E=245 MeV, He-jet, particle telescope.

 ^{73}Sr Levels

E(level)	T _{1/2}	Comments
0	≈ 25 ms	$\% \epsilon + \% \beta^+ = 100$; $\% \epsilon \text{p} = ?$ Delayed proton group reported by 1993Ba61 at E(p)(lab)=3750 40, but percent decay mode was not deduced. J^π: $\Omega_{\text{neutron}}=3/2^-$ (theory,2019Mo01). $1/2^-$ from systematics (2017Au03). T_{1/2}: estimated from total transit time of ≈ 25 ms (1993Ba61). From systematics and decreasing trend of half-lives of Sr isotopes as the neutron number decreases, value is expected to be <30 ms. T_{1/2} values are: 27 ms for ^{74}Sr, 88 ms for ^{75}Sr, 7.89 s for ^{76}Sr, 9.0 s for ^{77}Sr and 160 s for ^{78}Sr. Theoretical value for β decay=42.8 ms (2019Mo01).