

$^{73}\text{Sr}$   $\varepsilon$  decay (25 ms) [1993Ba61](#)

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

Parent:  $^{73}\text{Sr}$ :  $E=0$ ;  $T_{1/2}\approx 25$  ms;  $Q(\varepsilon)=14130$  SY;  $\% \varepsilon + \% \beta^+$  decay=100.0

$^{73}\text{Sr}$ - $T_{1/2}$ : From  $^{73}\text{Sr}$  Adopted Levels.

$^{73}\text{Sr}$ - $Q(\varepsilon)$ : 14130 450 ([2017Wa10](#)).

$^{73}\text{Sr}$  produced and identified by [1993Ba61](#) in  $^{40}\text{Ca}(^{36}\text{Ar},3n)$ ; and by [1991WiZZ](#) in  $^{58}\text{Ni}(^{78}\text{Kr},X)$  reaction at  $E=65$  MeV/nucleon.

 $^{73}\text{Rb}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	Comments
0	(3/2 <sup>-</sup> )	The g.s. (expected $E(p)\approx 570$ keV) is not seen in the proton spectrum of $^{73}\text{Sr}$ $\varepsilon p$ decay due to low-energy cut-off at $E>1$ MeV ( <a href="#">1993Ba61</a> ).
$3.23\times 10^3$ 20	(1/2 <sup>-</sup> )	E(level): deduced from $E(p)(\text{lab})=3750$ 40 ( <a href="#">1993Ba61</a> ) in $^{73}\text{Sr}$ $\varepsilon p$ decay and $S(p)(^{73}\text{Rb})=-570$ 200 (syst, <a href="#">2017Wa10</a> ). This level decays by protons to $^{72}\text{Kr}$ g.s.

<sup>†</sup> From Adopted Levels.

 $\varepsilon, \beta^+$  radiations

E(decay)	E(level)	Log $ft$	$I(\varepsilon + \beta^+)$ <sup>†</sup>	Comments
(10900 SY)	3230	$\approx 3.3$	$\approx 50$	$I(\varepsilon + \beta^+)$ : based on expected $\log ft=3.3$ for a superallowed transition from assumption of the 3230 level as analog of $^{73}\text{Sr}$ g.s.

<sup>†</sup> Absolute intensity per 100 decays.