

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ameenah R. Farhan, Balraj Singh		NDS 110,1917 (2009)	30-Jun-2009

S(p)=1.8×10³ *syst*; Q(α)=−2.9×10³ *syst* 2012Wa38
Note: Current evaluation has used the following Q record 17200 calc 2080 *syst* −3300 *syst* 2009AuZZ,1997Mo25.
S(n) from 1997Mo25, S(p) and Q(α) from 2009AuZZ.
ΔS(p)=ΔQ(α)=510 (*syst*,2009AuZZ). Q(εp)=8810 500, s(2p)=2030 500 (*syst*,2009AuZZ).
Values in 2003Au03: S(p)=2090 510, Q(α)=−3430 710, Q(εp)=8810 500, s(2p)=2040 500; all from systematics.
2001Ki13, 2002Fa13, 2007WeZX: ¹¹²Sn ions, 1 GeV/A, on Be target, fragments isotopically separated. Si stack detectors. Only one event assigned to ⁷⁸Zr.
Additional information 1.

⁷⁸Zr Levels

E(level)	J ^π	T _{1/2}	Comments
0	0 ⁺	>170 ns	%ε+%β ⁺ =? T _{1/2} : estimated from time-of-flight (2007WeZX,2001Ki13). Actual half-life is expected to be much greater as suggested by calculated value of 260 ms (1997m025) and systematics value of 50 ms (2003Au02). Additional information 2.