Adopted Levels:not observed

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

Q(β^-)=−16650 *syst*; S(n)=17150 *syst*; S(p)=−1350 *syst*; Q(α)=−2170 *syst* 2021Wa16
ΔQ(β^-)=540, ΔS(n)=360, ΔS(p)=240, ΔQ(α)=260 (syst,2021Wa16).
S(2n)=32440 *360*, S(2p)=940 *200*, Q(εp)=11200 *200* (syst,2021Wa16).
1991Mo10,1993Wi03,1993Wi18: ^{58}Ni(^{78}Kr,X) at E=65 MeV/nucleon. Identification of new nuclei near proton-drip line 31≤Z≤38 at NSCL. No identification of ^{63}As.
2005St29,2005St34: ^{9}Be(^{78}Kr,X) ^{63}As isotope was searched in fragmentation of $^{78}Kr^{34+}$ beam on a ^{9}Be target at E=140 MeV/nucleon. Reaction products selected according to their momentum/charge ratio using the A1900 spectrometer of the National Superconducting Cyclotron Laboratory (NSCL). Measured fragments, tof and energy losses, timing scintillator (SCI), a position-sensitive parallel-plate avalanche counter (PPAC) and three silicon detectors (PIN). Half-life deduced from production yields.

Theoretical calculations:
2021Kl02,2019Zo02,1998Ra28: calculated mass excess, S(p), S(2p).
2016Me17: calculated magnetic dipole moment of ground state.
2002La37,2001La01: calculated S(p), deformation parameter.
1997Or04: calculated binding energy.

^{63}As Levels

E(level)	$T_{1/2}$	Comments
0?	<43 ns	%p=? J^π: 3/2$^-$ from theory in 2019Mo01 and systematics in 2021Ko07. $T_{1/2}$: estimated by 2005St29 from a time-of-flight of 363 ns and an expectation of 340 ^{63}As to be observed at the focal plane. No events could be assigned to ^{63}As, implying that ^{63}As is unbound towards proton emission (2005St29). Calculated $T_{1/2}$(β decay)=86 ms (2019Mo01).