## **Adopted Levels**

History

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 $Q(\beta^{-})=-1.3\times10^{4} SY$ ;  $S(n)=1.43\times10^{4} SY$ ;  $S(p)=-5.\times10^{2} SY$ ;  $Q(\alpha)=-1.7\times10^{3} SY$ 2019Wi08: <sup>68</sup>Br produced in fragmentation of secondary beams of <sup>70</sup>Br, <sup>70</sup>Kr, <sup>71</sup>Kr, and <sup>72</sup>Kr at 170 MeV/nucleon on <sup>9</sup>Be targets. Secondary beams produced in fragmentation of <sup>78</sup>Kr beam at 345 MeV/nucleon at RIKEN Nishina Center. Secondary beams analyzed with  $B\rho$ - $\Delta$ E-TOF method using the BigRIPS separator. Reaction products following the secondary fragmentation analyzed with the ZeroDegree Spectrometer. First identification of <sup>68</sup>Br. Deduced T<sub>1/2</sub> estimate from comparison of measured to expected yields.

## <sup>68</sup>Br Levels

of the ZeroDegree Spectrometer and time dilation. Value is given here as average of  $\tau$ =51 ns 6, 57 ns 7,

E(level) Comments E(level): assuming the observed events correspond to the ground state. Corrected yield of <sup>68</sup>Br was 14.7 50 (stat) 18 (syst) for <sup>70</sup>Br beam, 33 16 (stat) 4 (syst) for <sup>70</sup>Kr beam, 13.7 60 (stat) 12 (syst) for <sup>71</sup>Kr beam and 10 4 (stat) 2 (syst) for <sup>72</sup>Kr beam. T<sub>1/2</sub>: estimated by 2019Wi08 based on measured versus expected yield, length of flight path to focal plane

46 ns 6, and 51 ns 6 determined for the <sup>70</sup>Br, <sup>70</sup>Kr, <sup>71</sup>Kr, and <sup>72</sup>Kr beams, respectively.