## <sup>39</sup>**P**β<sup>-</sup>**n decay (0.28 s) 1988Mu08**

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

Parent: <sup>39</sup>P: E=0; J<sup> $\pi$ </sup>=(1/2<sup>+</sup>); T<sub>1/2</sub>=0.28 s 4; Q( $\beta$ <sup>-</sup>n)=6.02×10<sup>3</sup> 11; % $\beta$ <sup>-</sup>n decay=26 8

 $^{39}$ P-J<sup> $\pi$ </sup>,T<sub>1/2</sub>: From Adopted Levels of  $^{39}$ S. T<sub>1/2</sub>=0.16 s +30–10 from 1988Mu08.

<sup>39</sup>P-Q( $\beta^{-}$ n): From 2017Wa10.

1988Mu08: Radioactive <sup>39</sup>P isotopes were produced via fragmentation of 45 MeV/nucleon <sup>86</sup>Kr beam from the GANIL cyclotron on a <sup>181</sup>Ta target. Fragments were separated and identified by the magnetic spectrometer LISE and implanted into a semiconductor detector telescope. Neutrons were detected by a  $4\pi$  liquid scintillator. Measured  $\beta$ n-coin, decay time distribution. Deduced  $\beta$ -delayed neutron emission probability of <sup>39</sup>P, parent T<sub>1/2</sub>.

 $\%\beta^{-}n=26.8$  from Adopted Levels of <sup>39</sup>P. Value from 1988Mu08 is 41 +32-16.

<sup>38</sup>S Levels

E(level)	$J^{\pi}$
0	$0^{+}$