

---

 $^{26}\text{O}$  2n decay (4.5 ps)    2013Ko10,2013Ca18

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty		NDS 186, 2 (2022)	31-Mar-2022

Parent:  $^{26}\text{O}$ : E=0.0;  $J^\pi=0^+$ ;  $T_{1/2}=4.5$  ps +32–34;  $Q(2n)=18.5$ ; %2n decay=100.0

$^{26}\text{O}$ -E: Ground state of  $^{26}\text{O}$  is unbound towards particle emission.

$^{26}\text{O}$ -T<sub>1/2</sub>: From 2013Ko10. Other:  $\leq 3.95$  ns (from  $\tau \leq 5.7$  ns (2013Ca18)).

$^{26}\text{O}$ -Q(2n): From 2021Wa16. Other: 150 +50–150 measured by 2012Lu07.

$^{26}\text{O}$ -%2n decay: %2n=100 assumed.

2013Ko10 (also 2013Th04, 2012Lu07):  $^{26}\text{O}$  produced in  $^9\text{Be}(^{27}\text{F},\text{p})$  reaction at E=82 MeV/nucleon. Measured E(n), I(n), fragment-n coincidence, half-life.

2013Ca18:  $^{26}\text{O}$  produced in one-proton knockout reaction on  $^{27}\text{F}$  beam on hydrogen ( $\text{CH}_2$ ) target.  $^{27}\text{F}$  beam produced in fragmentation of 490 MeV/nucleon  $^{40}\text{Ar}$  beam on  $^9\text{Be}$  target at GSI using R3B-LAND setup. Measured fragment, one-neutron and two-neutron correlated events; deduced decay energy, resonance energy, width and lifetime of  $^{24}\text{O}+\text{n+n}$  system.

**Additional information 1.**

Other: 1999Dl01:  $^{26}\text{O}$  not observed, suggesting its unbound nature.

---

 $^{24}\text{O}$  Levels

E(level)	$J^\pi$
0.0	$0^+$