## Adopted Levels

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	J. Kelley, C. G. Sheu	ENSDF	01-March-2014					

 $S(p)=-1556 \ 41; \ Q(\alpha)=-9.26e3 \ 40$  2012Wa38 Theoretical works:

2011Sh17: Simple potential model comparison of <sup>14</sup>F and its mirror nucleus <sup>14</sup>B, and a critical analysis of the 2010Go11 results. The main critique is connected with the suggestion that in 2010Go16 the observed  $J^{\pi}=3^{-}$  state at  $E(^{13}O+p)=3.05$  MeV is at too low an energy and that its deduced spectroscopic factor is not appropriate; the authors suggest the  $E(^{13}O+p)=3.05$  MeV state is the  $J^{\pi}=1^{+}$  state and mirror of <sup>14</sup>B\*(1.28 MeV).

2011Sh21: Comparison of ab initio no-core Shell Model calculations with data on <sup>14</sup>F and its mirror <sup>14</sup>B nucleus.

A

2010Ma06: Performed ab initio no-core Shell Model calculations of the mass of <sup>14</sup>F and its mirror <sup>14</sup>B nucleus along with the <sup>13</sup>O nucleus. In addition they calculated the predicted excitation energies for <sup>14</sup>F and <sup>14</sup>B.

See earlier predictions on <sup>14</sup>F ground state properties reported in 1978Gu10, 1984An18, 1993Po11, 2000Po32, 2008Va13.

## <sup>14</sup>F Levels

## Cross Reference (XREF) Flags

$$^{1}H(^{13}O,P)$$

E(level) <sup>†</sup>	$J^{\pi}$	T <sub>1/2</sub>	Г/Г <sub>s.p.</sub>	XREF	Comments
0	2-	910 keV 100	0.85	Α	E(level): mass excess=31960 keV 50.
$0.54 \times 10^3$ 18	$1^{-}$	≈1 MeV	0.6	Α	
		210 keV 40		Α	
2.79×10 <sup>3</sup> 11	$4^{-}$	550 keV 100	0.5	Α	

<sup>†</sup>  $S(p)(^{14}F)=1.56$  MeV 4.