^{22}Ne(^{18}O,^{17}F) 1989Or04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia[#], A. Chakraborty[##]	NDS 171, 1 (2021)	1-Jun-2020

No significant revision from previous evaluation (2007Fi02).

^{22}Ne(^{18}O,^{17}F) at E=108 MeV using the 14 UD Pelletron facility at ANU. Enriched targets. The gaseous neon target was confined in a gas cell. The reaction products were momentum-analyzed by an Enge split-pole spectrometer equipped with a multi-element gas filled detector. The energy resolution ~420 keV FWHM.

^{23}F Levels

E(level)	Comments
0.0	
2310 *80*	
2930 *80*	
4050 *50*	
5000 *60*	E(level): Broad resonance, possibly unresolved multiplet.
6250 *80*	E(level): Broad resonance, possibly unresolved multiplet.
8.18×10^{3} *11*	E(level): ΔE dominated by energy calibration extrapolation; neutron unbound state; larger uncertainty is because of extrapolation of calibration.