## ${}^{1}$ H( ${}^{21}$ N, ${}^{19}$ N $\gamma$ ), ${}^{208}$ Pb( ${}^{21}$ N, ${}^{19}$ N $\gamma$ ) 2010El05

History							
Туре	Author	Citation	Literature Cutoff Date				
Full Evaluation	G. C. Sheu, J. H. Kelley	ENSDF	06-Nov-2018				

2010El05: XUNDL dataset compiled by McMaster, 2010.

A beam of  $\approx$ 50 MeV/nucleon <sup>21</sup>N ions, from the RIKEN/RIPS facility, impinged on either a hydrogen target or a <sup>208</sup>Pb target (thickness not given). Scattered particles were detected near  $\theta$ <6.5° and identified based on total energy and time-of-flight measurements using an array of plastic scintillators, in addition an array of 160 NaI(Tl) crystals from the DALI2 array detected correlated  $\gamma$  rays. The populated levels and a partial level scheme were deduced.

Measured E $\gamma$ , I $\gamma$ , Doppler-corrected  $\gamma$  spectra.

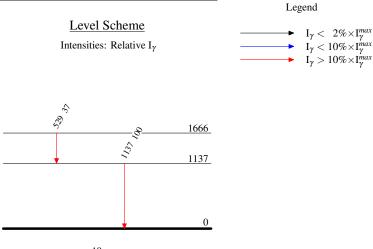
The level scheme is based on that proposed in (2008So09).

E(level)	
0	
1137 26	í
1666 33	•

γ	(	19	N

Eγ	$I_{\gamma}$	$E_i$ (level)	$E_f$
529 21	37	1666	1137
1137 26	100	1137	0

 $^{1}$ H( $^{21}$ N, $^{19}$ N $\gamma$ ), $^{208}$ Pb( $^{21}$ N, $^{19}$ N $\gamma$ ) 2010E105



 ${}^{19}_{7}\mathrm{N}_{12}$