$^{1}H(^{21}N,^{20}N)$ 2006OkZZ

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. G. Sheu, J. H. Kelley	ENSDF	31-Dec-2018

2006OkZZ: A secondary beam of E(^{21}N)=72 MeV/nucleon, produced at the RIKEN Projectile fragment Separator (RIPS), impinged on a liquid hydrogen ($LiqH_2$) target with a thickness of 120 mg/cm^2. The target was surrounded by 48 blocks of NaI(Tl) scintillators to detect de-excitation γ-rays. The outgoing ^{20}N particle was identified using ΔE, time-of-flight (tof) and magnetic rigidity (MDC and FDC3) information.

Two Doppler-shift-corrected γ-rays were observed at 612 keV *21* and 850 keV *17*.

See related work in (2010El05), and see quasifree (p,2p) cross section studies in (2018At01).

^{20}N Levels

E(level)
0
850
944?
1559?

$\gamma(^{20}N)$

E_γ	E_i(level)	E_f
612† *21*	1559?	944?
850 *17*	850	0

† Placement of transition in the level scheme is uncertain.

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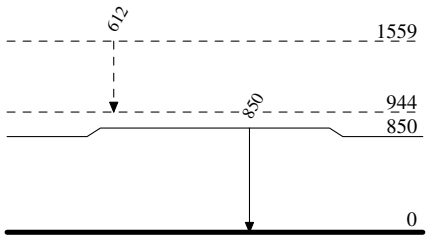
Level Scheme



$^{20}_{7}N_{13}$