
C(^{21}N , ^{20}N) [2000Sa47](#), [2004Sa14](#)

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

[2000Sa47](#), [2004Sa14](#): Secondary E(^{21}N)=43 MeV/nucleon beams , produced from ^{40}Ar fragmentation at GANIL, impinged on a 170 mg/cm^2 C target. The beam energy spread was $\Delta E/E=1\%$ (2% in [2000Sa47](#)). The one-neutron removal cross sections and core fragment longitudinal and transverse momentum distributions were measured using the SPEG spectrometer. $\sigma_{-1n}=98\text{ mb}$ *13* was measured; this compares the value $\sigma_{-1n}^{\text{Glauber}}=101\text{ mb}$ calculated using a Glauber model. The longitudinal momentum distribution width $\text{FWHM}_{pz}^{\text{cm}}=162\text{ MeV/c}$ *4*, transverse momentum width $\text{FWHM}_{px}^{\text{cm}}=217\text{ MeV/c}$ *16* ([2004Sa14](#)), and $J^\pi=2^-$ for the ground state were also deduced.

 ^{20}N Levels

<u>E(level)</u>	<u>J^π</u>
0	2^-