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 $\text{Ni}(^{40}\text{Ar},^{20}\text{N})$  **2012Kw02**

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

**2012Kw02:** Several light neutron-rich nuclides, produced by projectile fragmentation of an  $^{40}\text{Ar}$  beam at  $E=140$  MeV/nucleon, bombarded one of three targets,  $668 \text{ mg/cm}^2$   $^9\text{Be}$ ,  $775 \text{ mg/cm}^2$   $^{\text{nat}}\text{Ni}$ , and  $1086 \text{ mg/cm}^2$   $^{181}\text{Ta}$  at the National Superconducting Cyclotron Laboratory (NSCL). Fragments were momentum analyzed using the A1900 separator and identified at the final focus using time-of-flight and a telescope consisting of five Si  $\Delta E$  detectors. The fragmentation cross sections, parallel momentum transfers, and parallel momentum distribution widths were measured and compared to the theoretical predictions.

 $^{20}\text{N}$  LevelsE(level)

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