

$\text{Ni}({}^{40}\text{Ar}, {}^{19}\text{N}), {}^{181}\text{Ta}({}^{40}\text{Ar}, {}^{19}\text{N})$ [2012Kw02](#)

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	G. C. Sheu, J. H. Kelley		ENSDF	06-Nov-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 mg/cm^2 ${}^9\text{Be}$, 775 mg/cm^2 ${}^{\text{nat}}\text{Ni}$, and 1086 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 ΔE detectors. The fragmentation cross sections, parallel momentum transfers, and parallel momentum distribution widths were measured and compared to theoretical predictions.

 ${}^{19}\text{N}$ LevelsE(level)

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