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Measurement of parallel and perpendicular momentum distributions of neutron-deficient projectile fragments M. MOSBY, D.J. MORRISSEY, A. GADE, D. WEISSHAAR, NSCL/MSU — The parallel and perpendicular momentum widths of a variety of projectile fragments were measured for the first time using the S800 spectrograph at the National Superconducting Cyclotron Laboratory at Michigan State University. A set of secondary beams from an ^{36}Ar primary beam at 150 MeV/nucleon were fragmented in a beryllium target with the spectrograph centered at 0°. The fragmentation products were identified at the focal plane and both the longitudinal and perpendicular momentum distributions were observed in a single setting. The resulting longitudinal momentum distributions have the expected growth with mass-loss (A_{beam}-A_{frag}). New information on the widths of the perpendicular momentum distribution will be presented and compared to the predictions in the literature.

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