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Shift and width of momentum distribution of projectile-like fragments produced at 290MeV/u SADA0 MOMOTA, Kochi University of Technology, MITSUTAKA KANAZAWA, ATSUSHI KITAGAWA, SHINJI SATO, NIRS — The shift and width of momentum distribution of projectile-like fragments (PLFs) produced at an intermediate energy were investigated experimentally. The longitudinal momentum distributions of PLFs produced from the Ar- and Kr-beams were observed at an energy of 290 MeV/u. The measurements were performed by using HIMAC facility at NIRS. Observed distributions shows an asymmetric features, which is minor than that was observed at 100 MeV/u or lower. In order to extract the reaction mechanism, observed distributions were fitted with an asymmetric Gaussian function. Based on the fitting process, the precise determination of the shift and width of momentum distribution was performed for PLFs with $AF = 10 \sim 40$ and $20 \sim 84$ for Ar-beam and Kr-beam, respectively. In principle, the shift and width are independent on the target (C, Al, Nb, Tb, Au). Some light PLFs produced from Kr-beam show the anomalously large momentum shift and width.

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