

ANALYSIS OF VELOCITY AND ISOTOPE DISTRIBUTIONS IN PROJECTILE FRAGMENTATION REACTIONS OF ^{18}O AT 35 MEV/NUCLEON ON ^9Be AND ^{181}Ta TARGETS

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Up to date analysis of velocity and isotope distributions of light fragments obtained in the projectile fragmentation reactions of ^{18}O at 35 MeV/nucleon on ^9Be and ^{181}Ta targets measured at COMBAS fragment separator at the U400M Research Facility in JINR [1] are presented. The results of velocity spectra analytical parametrization and isotopic ratios are compared with the ones obtained in the experiments presented in the literature [2,3]. The discussion of the different mechanisms involved in these types of the reactions is given.

[1] A.G. Artukh et.al. Multi-nucleon transfers in reactions $^{18}\text{O}(35\text{MeV/nucleon})+^{181}\text{Ta}(^9\text{Be})$, 2020, Papan Letters - submitted

[2] X. H. Zhang et.al. Projectile fragmentation reactions of ^{40}Ar at 57 MeV/nucleon, 2012, Phys. Rev. C 85,024621

[3] M. Mocko, M. B. Tsang et.al. Projectile fragmentation of ^{40}Ca , ^{48}Ca , ^{58}Ni , and ^{64}Ni at 140 MeV/nucleon, 2006, Phys. Rev. C 74, 054612

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