Contribution ID : **785** Type : **Poster**

ANALYSIS OF VELOCITY AND ISOTOPE DISTRIBUTIONS IN PROJECTILE FRAGMENTATION REACTIONS OF 18O AT 35 MEV/NUCLEON ON 9BE AND 181TA TARGETS

Monday, 5 October 2020 19:45 (15)

Up to date analysis of velocity and isotope distributions of light fragments obtained in the projectile fragmentation reactions of 18O at 35 MeV/nucleon on 9Be and 181Ta 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 18O(35MeV/nucleon)+181Ta(9Be), 2020, Pepan Letters - submitted

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

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

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Session Classification : Poster session

Track Classification : Nuclear physics