**Influence of cluster structure to the mechanism of nuclear reactions**

T. Issatayev1,2,3, Yu.E. Penionzhkevich1, S.M. Lukyanov1, A. Azhibekov1, V.A. Maslov1, A.V. Shakhov1, K. Mendibayev1,2 , S.S. Stukalov1, Zh. Zeinulla1,2, T. Zholdybayev2

*1Joint Institute for Nuclear Research, FLNR, Dubna, Russia*

*2Institute of Nuclear Physics, 050032 Almaty Kazakhstan*

*3L.N. Gumilyov Eurasian National University, 010008 Nur-Sultan, Kazakhstan*

 E-mail: talgat\_136@mail.ru

In the interaction reactions of weakly bound cluster nuclei, the structure of these nuclei can manifest itself with a high probability. It is expressed in cross sections for these processes, in particular, in the multinucleon transfer reaction and the transfer reaction of individual clusters [1,2].

In order to study the influence of the cluster structure on the mechanism of nuclear reactions, we studied the interaction reactions 6Li+9Be,12C at an energy of 68 MeV. The experiment has been performed at the U-400M cyclotron, FLNR, JINR. The angular distributions of the products formed in these reactions were measured in the range of 10-120 º in the c.m system. The following reaction channels were studied: 9Be(6Li,6Li)9Be, 9Be(6Li,7Li)8Be, 9Be(6Li,6He)9B, 9Be(6Li, 4He)11B, 12C(6Li,6Li)12C, 12C(6Li,7Be )11B in ground and excited states. The obtained experimental data were analyzed within the framework of the optical model and the DWBA method [3].

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