

Nuclear Physics at Border Lines

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NUCLEON COLLECTIVIZATION AS THE MAIN MECHANISM OF THE FUSION - FISSION DYNAMICS

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A whole process of super-heavy nucleus formation is divided usually into three reaction stages even if connected with each other but treated and calculated separately: (1) overcoming the Coulomb barrier and approaching the point of contact $R_{\text{cont}} = R_1 + R_2$, (2) formation of the compound mono-nucleus, (3) decay ("cooling") of the compound nucleus. Different theoretical approaches are used for analyzing all the three reaction stages. However, the dynamics of the intermediate stage of the compound nucleus formation is the most vague. It is due the fact that in the fusion of light and medium nuclei, in which the fissility of the compound nucleus is not very high, the colliding nuclei having overcome the Coulomb barrier form a compound nucleus with a probability $P_{\text{CN}} = 1$. Thus, this reaction stage does not influence the yield of ER at all. However, in the fusion of heavy nuclei it is the fission channels (normal and quasi-fission) that substantially determine the dynamics of the whole process; the P_{CN} value can be much smaller than unit, while its accurate calculation is very difficult. Moreover, today there are no consensus for the mechanism of the compound nucleus formation itself, and quite different, sometimes opposite in their physics sense, models are used for its description.

The following quite natural mechanism can be proposed for the compound nucleus formation in competition with the quasi-fission process [1].

(1) Down to the instant of touch the nuclei keep their individualities and the potential energy of their interaction is defined in a usual manner. The point of contact R_{cont} can be defined as the sum of nuclear radii which is smaller by 1-3 fm than the radius of the Coulomb barrier and, thus, the nuclei have to overcome this barrier to reach it.

(2) In the point of contact the nuclei begin to lose their individualities due to an increasing number of common nucleons ΔA , here $A_1 + A_2 + \Delta A = A_{\text{CN}}$ (configuration (b) in Fig.1). Interaction of two touching nuclei A_1 and A_2 weakens with increasing the number of common nucleons ΔA , and their specific binding energies approach a specific binding energy of the compound nucleus. Collectivized nucleons move in the whole volume occupied by the two nuclei and have the average over A_1 and A_2 specific binding energy.

(3) Thus, the process of compound nucleus formation in competition with quasi-fission occurs in the space (A_1, A_2) , here the compound nucleus is finally formed

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