

DEPENDENCE OF FRAGMENT MASS
DISTRIBUTIONS ON THE ANGULAR
MOMENTUM OF A FISSIONING NUCLEUS

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S u m m a r y

A new approach to description of fragment mass distributions under fission of actinide nuclei accounting for the influence of the total angular momentum of a fissile nucleus is offered. The experimental data on fission of ^{236}U nuclei formed in reactions with neutrons and α -particles in the excitation energy range of up to 25 MeV are analyzed. It is shown that the process of formation and separation of fragments is affected not only by temperature but also the complete angular momentum of a fissile nucleus.