

SÉMINAIRE du GROUPE THÉORIE



INSTITUT DE PHYSIQUE NUCLÉAIRE

Groupe de Physique Théorique

Bât. 100, F-91406 ORSAY CEDEX

Tél (33)-(0)1-6915-7330 - Fax (33)-(0)1-6915-7748



Horia Pasca

JINR Dubna

Transitions between symmetric and asymmetric fission modes in the region of light and heavy actinides

Using the improved scission-point model, the isotopic trends of the charge and mass distributions of fission fragments are studied in fission of even-even Th and Fm isotopes. The transition from symmetric to asymmetric fission mode is shown to be related to the change of the potential energy surface at scission point. The change of the shape of charge and mass distributions with increasing excitation energy is discussed. At high excitation energies, there is unexpected large asymmetric modes in the fission of neutron-deficient Th isotopes.

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