

Structure effects in photofission

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We report on the fission experiments performed with bremsstrahlung beams. The mass distributions for a series of actinide nuclides from Th-232 to U-238 have been measured. The data were analysed in the framework of the statistical model which incorporates total statistical equilibrium between degrees of freedom at scission point and post fission dynamics and both shell effects in the fragments at the scission point and post-scission shell effects. The analysis allowed obtaining the systematics on shell structure and odd-even effects in photofission of actinides and new understanding structure effects in photofission.