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Isomers Production in ^{238}U Photofission

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The fission process induced by gamma quantas up to 25 MeV energy on ^{238}U was analyzed. Experimental observables as cross sections, fragments mass distribution yields of some nuclides of interest and average prompt neutrons multiplicity characterizing ^{238}U photofission were theoretically evaluated by using TALYS-1.9 software. Also results for the theoretical evaluations of isomer ratios using Talys possibilities supplied by own computer codes as well as experimental isomer ratios obtained at MT - 25 Microtron are presented. This study represents a research proposal for photofission investigations and isotopes production at the new neutron source IREN, from FLNP - JINR Dubna.

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