

STUDY OF THE EFFECTIVE EXCITATION CROSS
SECTION OF THE ^{115}In ISOMERIC STATE
IN THE (γ, γ') REACTION

*V.S. Bokhinyuk, A.I. Guthy, A.M. Parlag,
M.T. Sabolchy, I.V. Sokolyuk, I.V. Khimich*

Uzhgorod National University, Faculty of Physics
(9a, Kapitulna Str., Uzhgorod 88000, Ukraine;
e-mail: *nphys@univ.uzhgorod.ua*)

S u m m a r y

Braking radiation of a betatron and a microtrone at the Chair of Nuclear Physics of the Faculty of Physics of the Uzhgorod National University was used to obtain the yield curve of the $^{115}\text{In}(\gamma, \gamma')^{115m}\text{In}$ reaction in the energy interval 7–25 MeV with a step of 0.5–1 MeV. This curve was used to calculate the effective cross section of the reaction, and a second maximum in the reaction cross section at the energy of 22 MeV was revealed.