

CROSS SECTION OF THE  $(\gamma, n)^m$  REACTION  
FOR  $^{116}\text{Cd}$  NUCLEUS IN THE REGION  
OF GIANT E1-RESONANCE

*V.M. Mazur<sup>1</sup>, D.M. Symochko<sup>1</sup>, Z.M. Bigan<sup>1</sup>,  
T.V. Poltorzhytska<sup>2</sup>, P.S. Derechkey<sup>2</sup>*

<sup>1</sup>Institute of Electron Physics,  
Nat. Acad. of Sci. of Ukraine  
(21, *Universytets'ka Str.*, Uzhgorod 88016, Ukraine;  
*e-mail: nuclear@email.uz.ua*)

<sup>2</sup>Uzhhorod National University  
(54, *Voloshina Str.*, Uzhgorod 88000, Ukraine)

S u m m a r y

The isomeric yield ratios and the cross section of the reaction  $^{116}\text{Cd}(\gamma, n)^{115m.g}\text{Cd}$  have been studied as functions of the energy of gamma quanta. The obtained experimental results have been compared with calculations performed with the use of the TALYS-1.0 software.