

STUDIES OF PHOTONUCLEAR REACTIONS INDUCED BY BREMSTRAHLUNGS WITH END-POINT ENERGIES ABOVE THE DIPOLE RESONANCE REGION

Kim Tien Thanh

*Institute of Physics, Vietnam Academy of Science and Technology
No. 10, Daotian, Thule, Badinh, Hanoi.*

Abstract Nuclear reactions have become powerful tools for studying properties and characteristics of nuclei. The use of different particles, for example, proton, neutron, gamma and so on as projectiles was able to determine a series of general properties of nuclei as well as parameters of their levels and nuclear reaction mechanism involved. The study of nuclear reactions at bremsstrahlung photon beams has definite advantages. In this work we would like to present the results of our study of photonuclear reactions induced by bremsstrahlung with end-point energies above the giant dipole resonance region, namely:

- Study of the isomeric ratios in photonuclear reactions induced by bremsstrahlungs with end-point energies above the dipole resonance region /1,2,6-8/.
- Study of photonuclear reactions with multiparticle emission induced by 2.5 GeV bremsstrahlung /3-6/.

The studies have been carried out at the linear electron accelerators and the synchrotron of Pohang accelerator center, Pohang University of Science and Technology (POSTECH), Pohang, South Korea.

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