

“STAGGERING” EFFECT IN EVEN-EVEN NUCLEI  
WITH QUADRUPOLE AND OCTUPOLE  
DEFORMATIONS

*M.S. Nadirbekov, G.A. Yuldasheva*

Institute of Nuclear Physics,  
Academy of Sciences of Republic Uzbekistan,  
(*Ulugbek, Tashkent 100214, Uzbekistan*)

S u m m a r y

The  $\Delta I = 1$  “staggering” effect is investigated in the energy spectrum of positive and negative parities of the yrast band of even-even actinide nuclei. The “staggering” effect is described by the formula proportional to the discrete approximation of the fourth-order derivative of the function  $\Delta E(I)$ . It is shown that the “staggering” effect is characterized by the “zigzag” behavior and does not vanish within the observed range of angular momenta.