

# OCCUPATION OF LEVELS FOR $n\gamma$ -REACTION AND MIDDLE SQUARE PROJECTION OF THE SINGLE-PARTICLE MOMENTUM OF NUCLEONS

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The calculation of the relation between the nuclear levels occupation by means of gamma-rays emission and projection middle square  $\langle m^2 \rangle$  of the single-partical momentum of nucleons were performed. It is shown that the increasing of spin difference between ground occupied levels is caused by the decreasing of statistical model parameters uncertainty which is determined from the value of occupation numbers. Ground state and compaund nucleus level densities and correction on even-odd difference of binding energies of nucleus and single-particle strength functions as parameters for culculation have been choosen.