

## PECULIARITIES OF THE ROTATIONAL BANDS OF SUPERDEFORMED NUCLEI

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### S u m m a r y

The Davydov—Chaban model is generalized to the case of superdeformed nuclei. The deformational nuclear motion with the asymmetric potential having two minima is considered quasiclassically. Theory of the decay out of superdeformed rotational levels is built taking into account simultaneously both the residual and electromagnetic interactions. We generalized the two-level model of Stafford and Barrett to the case where a superdeformed level is coupled with the infinite equidistant spectrum of normal states.