## QUASISTATIONARY STATE OF THE WEAKLY-BOUND PARTICLE IN THE EXTERNAL ELECTRIC FIELD

V. P. Verbitsky, L. Ya. Zhukalyuk, K. O. Terenetsky

Close expression for the interior wave function of the weakly-bound particle in the external electrical field has been obtained. The approximate analytical representation of these functions was founded. It is shown that in the electrical field of heavy nuclei the interior stationary state of weakly-bound particle is transformed in the quasi-stationary one (the particle polarization or break up). It leads to significant distorting of interior wave functions. It has been shown that the spherical symmetry of this function is broken even as particle moves to the force source.