

The Obninsk EGP-15 Tandem (Status and Development), V.S. BASHMAKOV, S.V. BAZHAL, A.I. GLOTOV, V.K. DEBIN, A.S. FEIGIN, E.I. LOBANOV, A.A. MALYGIN, V.A. NIKITIN, K.A. REZVYKH, V.A. ROMANOV, V.I. SPIRIN, V.I. VOLODIN, IPPE - The terminal voltage of the EGP-15 tandem accelerator is raised up to 6.5 MV. The acceleration of hydrogen, oxygen, silicon, aluminium and chlorine ions is put in operation. On the basis of EGP-15 a technological system of film material irradiation for nuclear membrane production is developed. Further development of this accelerator is trained to the solution of following problems: - decreasing of the accelerated beam energy spread and increasing of its spatial stability, the latter being sufficiently improved during last months; - modernization of injector in order to extend the operation modes of the accelerator; - conversion of the accelerator in pulse mode of operation ($t \sim 1$ ns, $f = 1.5, 2$ and 5 MHz, $I_{puls} \sim 0.5 - 1.0 \sim$ mA) - acceleration of the helium ions. The ion-optical problems of low-energy acceleration stage are considered and the difficulties are discussed.