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CALCULATION OF THE DYNAMICS OF THE LINAC-200 ELECTRON BEAM

In JINR the Test Bed with an electron beam generated by the linear accelerator LINAC-200 for the energy up to 200 MeV is being created for research of the properties of accelerating structures, semiconducting structures to be used in advanced detectors, for creating a free electron laser, as well as for other applied investigations. Two accelerating stations with the beam energy up to 60 MeV and the beam current up to 15 mA are put into operation. This work presents the calculation results of the magnetic field of the focusing solenoidal system. In addition, the results on formation of the electron beam suitable for being captured in an accelerating section.

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